Notes Ck'd by	Survey of	F.B. 2287 Pg.
Map No.	JN Tape Std °F	
Work	Surveyed by	
	Notes Date	
	Indexed	

Job	Description
	SMALL CRAFT HARBORS 0075.24 PARADISE COVE AREA
06 Topog.	Inshore profile, soundings, cut-in angles from Dume Cove to Dume Pt. Sta. 117+50 to 154+96.58.
Elev.	Tidal staff readings at Santa Monica Pier on 7-8, 9, & 10--1957.
	ARROYO SEQUIT COVE AREA
76 Topog.	Inshore profile soundings & cut-in angles from Arroyo Sequit Pt. to Trancas Cyn.
Elev.	Tidal staff reading at Santa Monica Pier on 7-11-57.
Elev.	Tidal staff reading at Santa Monica Pier-7-12-57.
	LACHUSA COVE AREA
26 Topog.	Inshore profile, soundings & cut-in angles-2-7 to 2-9--Sea Level Drive to Lunita Dr. Sta. 192+50 to 209+27.42.

Microfilmed Feb. '86

Notes Ck'd by	Survey of Small Craft Harb
Map No.	JN 0075.24 Tape Std °F
Office Work	Surveyed by M.A. Van Dercu
Checked	Notes Van Date 7-8-57
Date	Indexed C. Johnson 7-16-57

F. B. 2287 PG. 5

J.N- 0075.24

SOUNDINGS & INSHORE ELEVATIONS

IN PARADISE COVE AREA

SMALL CRAFT HARBORS

(Contd from F.B. 2286)

FOR ARROYO SEQUIT COVE SOUNDINGS

SEE PG. 107

FOR LACHUSA COVE SOUNDINGS

SEE PG 179.

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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76F3098 SBE 2287 1-56

F. B. _____ PG. _____

Tide Gauge Readings at Santa Monica

All Readings are on Daylight Saving time

7-8-57

Scale on 2.9

Gauge Time				Predicted Tides
7:00 A.M.		3.5	+ 3.7	3.0
7:30 "		3.8	+ 4.0	3.3
8:00 "		3.8	+ 4.0	3.6
8:30 "		3.9	+ 4.1	3.7
9:00 "	Watch Time	4.0	+ 4.2	3.7
9:30 "		3.8	+ 4.0	3.6
10:00 "		3.7	+ 3.9	3.5
10:30 "		3.0	+ 3.2	3.2
11:00 "		2.9	+ 3.1	2.9
11:30 "		2.7	+ 2.9	2.5
12:00 "		2.6	+ 2.8	2.3
12:30 P.M.		2.3	+ 2.5	
1:00	1.03	2.3	+ 2.5	
Subtract		0.2		

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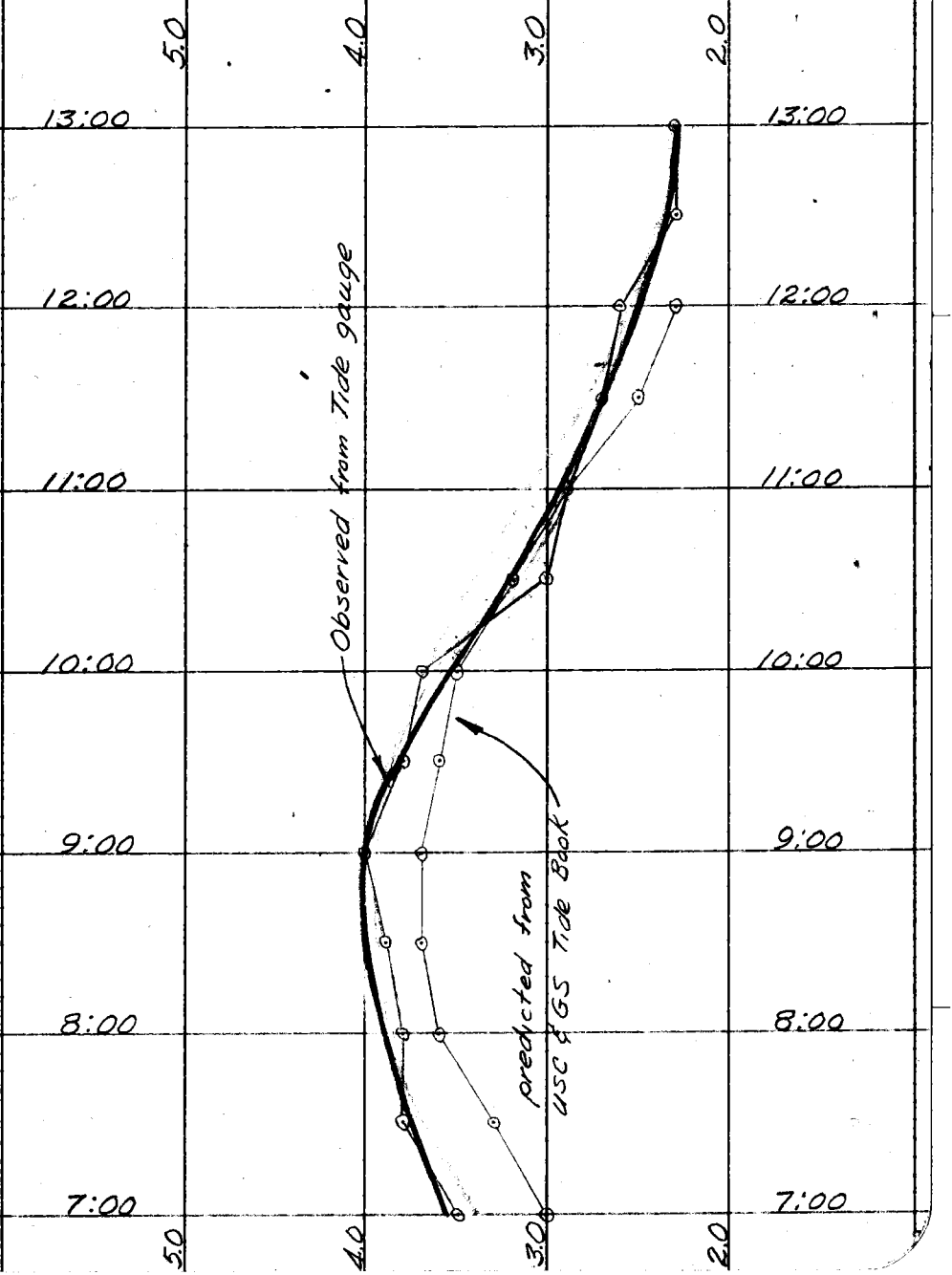
Notes Ck'd by JCN	Survey of Small Craft Harbor
Map No.	JN Tape Std °F
Office Work JCN	Surveyed by
Checked KRK	Notes Date
Date 10-57	Indexed

F. B. 2286 PG. 6

July 8, 1957



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76F309S SAE #247 1-56

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 115+00	Sight on 117+50
121+58.12	4 12	18 11		13 99	D-18, el = 13.991,	43 Inshore
T.P.	3 09	10 44	10 76	7 35	F.B. 2243-~~24~~	117+50
117+50		+	4 4	14 8		
30' R		+	4 0	14 4	Bot. Cliff	
16' L		+	3 0	13 4	Brk.	
		10 4	3 4	7 0	11° [illegible] 114	
			9 3	1 1	30 [illegible] 126	
			11 4	-1 0	[illegible] 193	
			12 6	-2 2	[illegible] 220	
			15 0	-4 6	[illegible] 304	
			16 5	-6 1	[illegible] 377	
			[illegible]	-6 8	[illegible] 416	
T.P.			3 [illegible]	7 35		

Profile Notes Red. JSH Plotted JCN Job No. 0075.24 Division No. 10 F. B. 2287 Pg. 7
No. Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. Notes Chkd. JCN Checked JSH Survey by English Notes Ed. Date 7-8-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

76298 S & E #307—7-55

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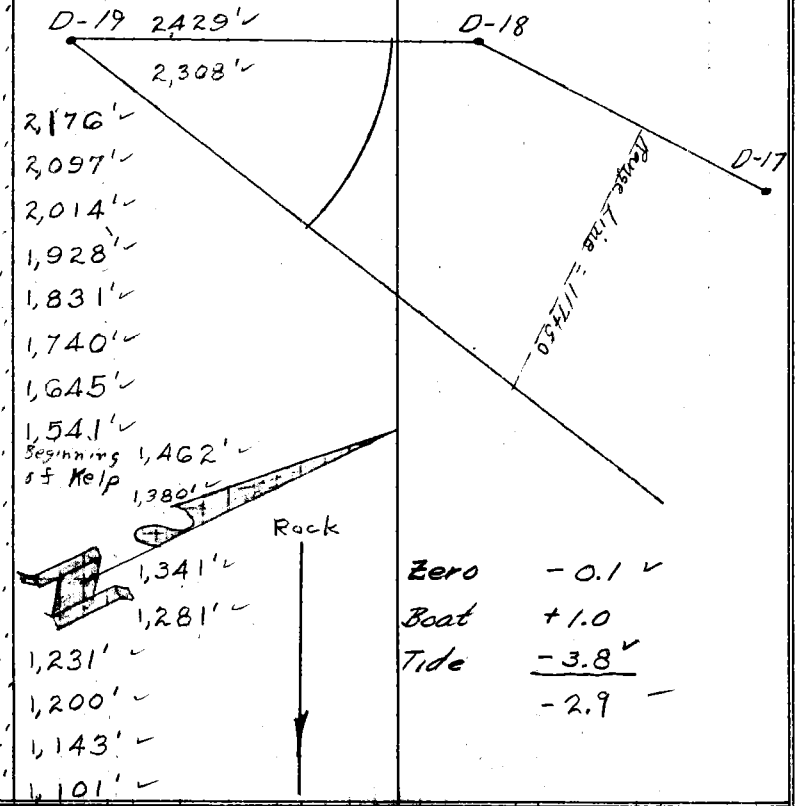
STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor.	ELEV. Ang.	Remarks
D-19	D-18	1	49.4	46.5	7:38	46°	21'	2,683' Cut in Line 117+50
		2	47.8	44.9		45°	24'	2,538'
		3	46.5	43.6		44°	36'	
		4	45.0	42.1		43°	35'	
		5	41.6	38.7		42°	28'	2,176'
		6	40.0	37.1		41°	46'	2,097'
		7	39.0	36.1		41°	01'	2,014'
		8	37.8	34.9		40°	11'	1,928'
		9	36.5	33.6		39°	13'	1,831'
		10	35.4	32.5		38°	15'	1,740'
		11	33.6	30.7		37°	11'	1,645'
		12	32.6	29.7		35°	55'	1,541'
		13	30.6	27.7		34°	55'	Beginning of Kelp 1,462'
		14	28.0	25.1		33°	50'	1,380'
		15	26.9	24.0		33°	18'	1,341'
		16	26.6	23.7		32°	28'	1,281'
		17	26.2	23.3		31°	43'	1,231'
		18	25.7	22.8		31°	16'	1,200'
		19	25.1	22.2		30°	24'	1,143'
		20	23.9	21.0		29°	42'	1,101'



Zero	-0.1
Boat	+1.0
Tide	-3.8
	-2.9

Profile Notes Red. JSH Plotted JCN Job No. 0035-24 Division No. 10 F. B. 2287 Pg. 9
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JSH Survey by Van Deren Notes R.T. Date 7-8-57
No. Date 10-57 Date 10-57 Map No. Date

76298 S & E #307—7-55

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F. B. 2287 Pg. 10 Job No. 0025.24 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. JCN Checked JSH X-Sec.
Indexed K. C. Johnson Date 7-8-57 Date 10-57 Date 10-57 No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight On	Depth # Rec.	Adj.	Time	Hor. Ang.	Remarks	
21	23.2	20.3		28° 48'	1,046' Cut Rock in Line	117+50
22	21.8	18.6		28° 04'	1,004'	
23	19.5	16.6		27° 25'	967'	
24	18.7	15.8		26° 49'	932'	
25	18.1	15.2		26° 02'	891'	
26	16.6	13.7		25° 07'	842'	
27	17.3	14.4		24° 24'	806'	
28	16.9	14.0		23° 44'	771'	
29	16.9	14.0		22° 47'	723'	Zero -0.1
30	15.6	12.7		21° 52'	679'	Boat +1.0
31	15.3	12.4		21° 04'	642'	Tide -3.8'
32	14.5	11.6	7:45	20° 00'	593'	-2.9'

D-19

D-18

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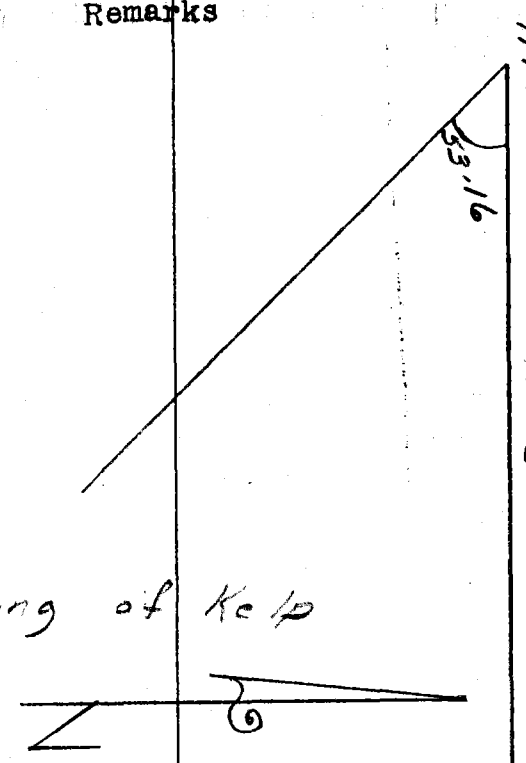
STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
117+50	D-17	1		7 38	53 16		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
		8			"		
		9			"		
		10			"		
		11			"		
		12			"		
		13			"	begining of Kelp	
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



Profile Notes Red. JSH Plotted JSH Job No. 0075.24 Division No. 10 F. B. 2287 Pg. 11
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JCN Survey by Van Deren Notes Wilks Date 7-8-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

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F. B. 2287 Pg. 12 Job No. 00752 Division No. 10 Notes Red. JSH Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes Wilks Notes Chkd. JCN Checked JCN X-Sec.
Indexed E. C. Johnson Date 7-8-57 Date 10-57 No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
117+50	D-17	21			53 16		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30			"		
		31			"		
		32		7 45	"		

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 117+50	Sight on 120+00
T.P.	2 19	9 54		7 35		Inshore 120+00
120+00		+	4 8	14 3		
25 R		+	4 0	13 5	Bot. Cliff	
30 L		+	4 8	14 3	Brk.	
		9 5	[illegible]	5 3	[illegible]	91
			8 1	1 4	3 43	139
			12 5	-1 1	[illegible]	211
			12 5	-3 0	[illegible]	283
			13 8	-4 3	[illegible]	309
			14 3	-4 [illegible]	[illegible]	340
			17 8	-8 3	[illegible]	383
			17 2	-7 7	[illegible]	415
			17 5	-8 0	[illegible]	442
T.P.			2 21	7 33		

Profile
Notes Red. JCN Plotted JCN Job No. 0075.24 Division No. 10 F. B. 228 Pg. 13
No. Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. Notes Chkd. JSH Checked JSH Survey by English Notes Ed. Date 7-8-57
No. Date 10-57 Date 10-57 Map No. Date

76298 S & E #307—7-55

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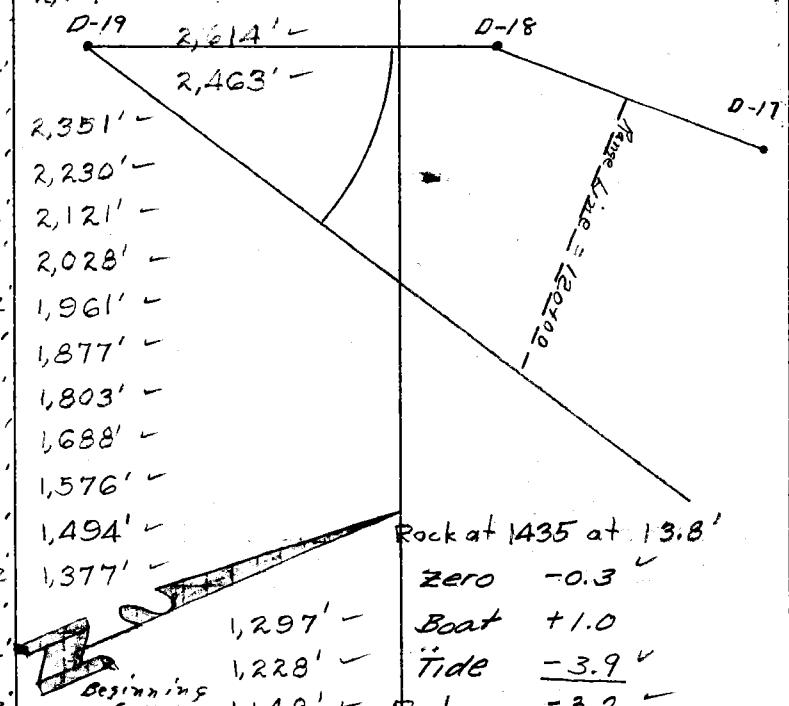
STATION Inst At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
D-19	D-18	1	51.8	49.6	7:57	49° 32'	2,874' Cut in Line 120+00
		2	49.6	46.4		48° 39'	2,744'
		3	47.5	44.3		47° 50'	
		4	45.3	42.1		46° 45'	
		5	43.4	40.2		45° 51'	2,351'
		6	40.8	37.6		44° 49'	2,230'
		7	39.6	36.4		43° 52'	2,121'
		8	38.3	35.1		43° 07'	2,028'
		9	37.6	34.4		42° 22'	1,961'
		10	36.7	33.5		41° 31'	1,877'
		11	36.2	33.0		40° 43'	1,803'
		12	34.4	31.2		39° 27'	1,688'
		13	32.9	29.7		38° 08'	1,576'
		14	32.0	28.8		37° 00'	1,494'
		15	29.9	26.7		35° 22'	1,377'
		16	28.4	25.2		34° 11'	1,297'
		17	27.2	24.0		33° 05'	1,228'
		18	26.0	22.8		31° 47'	1,148'
		19	24.5	21.3		30° 41'	1,084'
		20	22.4	19.2		29° 42'	1,031'



Rock at 1435 at 13.8'

Zero	-0.3
Boat	+1.0
Tide	-3.9
Rocks	-3.2

Profile No. ____ Date ____ Notes Red. JCN Plotted JCN Job No. 0075.29 Division No. 10 F. B. 2287 Pg. 15

X-Sec. No. ____ Date ____ Notes Chkd. JSH Checked JSH Survey of Small Craft Harbor Survey by Van Deren Notes R.T. Date 7-8-57

Date 10-57 Date 10-57 Map No. ____ Date ____

76298 S & E #307—7-55

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STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Remarks	
		21	20.5	17.3		28° 41	976' Cut Rock in Line	120+00
		22	18.5	15.3		27° 47'	929'	
		~~23~~	~~XXX~~	—		26° 34'	869'	
		24	19.5	16.3		26° 28'	865'	
		25	18.4	15.2		25° 19'	812'	
		26	17.6	14.4		23° 57'	748'	Zero -0.3
		27	17.1	13.9		23° 16'	717'	Boat +1.0
0-19	0-18	28	15.0	11.8		21° 37'	648'	Tide -3.9
		29	14.0	10.8		20° 34'	609'	-3.2
		30	13.4	10.2		19° 04'	547'	
		31	12.6	9.4	8:05	17° 59'	507'	

F. B. 2287 Pg. 16 Job No. 0075.28 Division No. 10 Notes Red. JCN Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd JSH Checked JSH X-Sec.
Indexed C. Johnson Date 7-8-57 Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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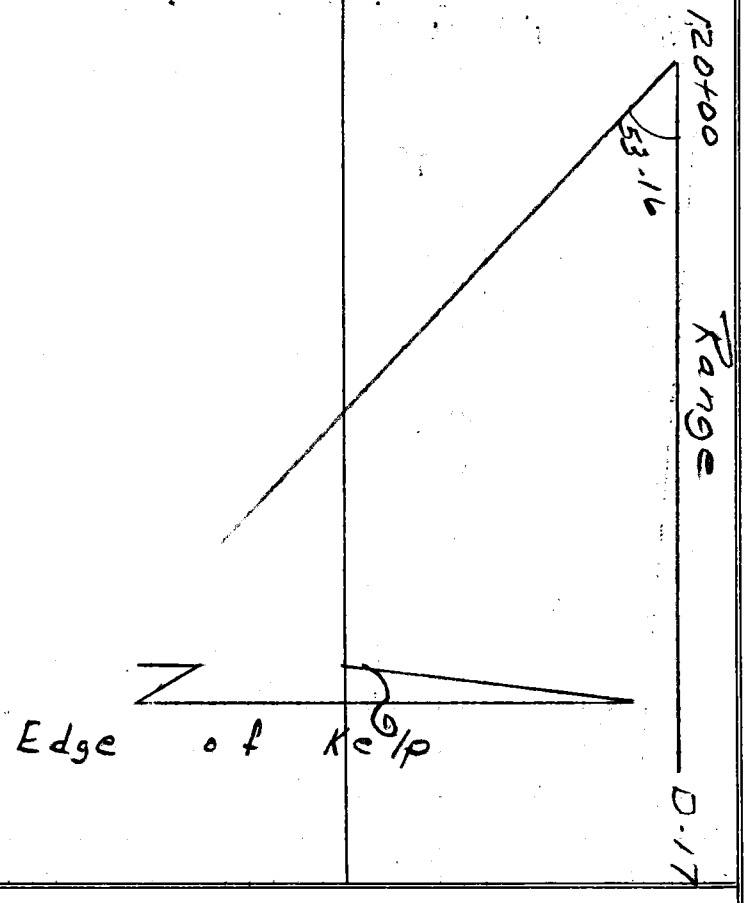
STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
120+00	D. 17	1			7 57	53 16	
		2				"	
		3				"	
		4				"	
		5				"	
		6				"	
		7				"	
		8				"	
		9				"	
		10				"	
		11				"	
		12				"	
		13				"	
		14				"	
		15				"	
		16				"	
		17				"	
		18				"	
		19				"	
		20				"	



Profile No. ____ Notes Red. JCN Date 10-57 Plotted JCN Date 10-57 Job No. 2075.24 Division No. 10 Survey of Small Craft Harbor Survey by Van Deren Notes W.1 KS Date 7-8-57 F. B. 2287 Pg. 17

X-Sec. No. ____ Notes Chkd. JSH Date 10-57 Checked JSH Date 10-57 Map No. ____ Date ____

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
120+00	D-17	21			53 16		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30			"		
		31		8 05	"		

F. B. 2287 Pg. 18 Job No. 2025.24 Division No. 10 Notes Red. JCN Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes Wilks Notes Chkd. JSH Checked JSH X-Sec.
Indexed E. C. Johnson Date 7-8-57 Date 10-57 Date 10-57 No.

76L298 S & E #307 9-54

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 125+00	Sight on 122+50
T.P.	2.83	10.16		7.33		Inshore 122+50
122+50			+5.8	16.0		
25			+3.5	13.7	Bot. Cliff	
26			+5.0	15.2	Brk.	
		10.2	3.9	6.3	16° 32'	81
			8.7	1.5	[illegible]	127
			14.7	-4.5	36 43	263
			4.2	-4.0	40 14	313
			15.8	-5.6	[illegible]	324
			16.4	-6.2	41 58	340
			17.4	-7.2	44 00	378
T.P.			0.00	10.15		

Profile Notes Red. JSH Plotted JSH Job No. 0075.24 Division No. 10 F. B. 2287 PL 19
No. Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. Notes Chkd. JCN Checked JCN Survey by English Notes Eq. Date 7-8-57
No. Date 10-57 Date 10-57 Map No. Checked Johnson Date

76298 S & E #307—7-55

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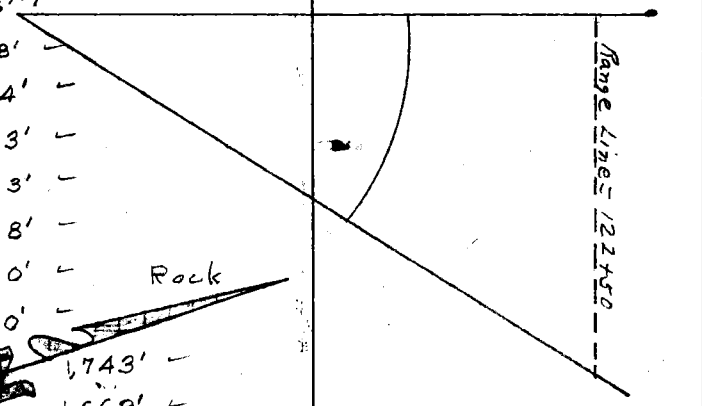
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
D-19	D-18	1	49.1	45.6	8:16	51° 00'	2,714' Cut in Line 122+50
		2	47.0	43.5		50° 43'	2,668'
		3	45.1	41.6		49° 54'	2,546' D-19
		4	43.7	40.2		49° 18'	2,458'
		5	41.6	38.1		48° 23'	2,334'
		6	40.4	36.9		47° 41'	2,243'
		7	38.8	35.3		47° 07'	2,173'
		8	37.9	34.4		46° 22'	2,088'
		9	36.7	33.2		45° 35'	2,000' Rock
		10	36.5	33.0		44° 41'	1,910'
		11	36.0	32.5		42° 52'	1,743'
		12	34.7	31.2		42° 00'	1,669'
		13	33.0	29.5		40° 09'	1,525'
		14	31.8	28.3		38° 40'	1,415'
		15	30.2	26.7		36° 10'	1,258'
		16	28.7	25.2		35° 27'	1,213'
		17	26.8	23.3		34° 16'	Beginning of Kelp 1,144'
		18	26.4	22.9		33° 15'	1,090'
		19	25.8	22.3		31° 55'	1,025'
		20	22.7	19.2		30° 08'	935'



Zero	−0.5
Boat	+1.0
Tide	−4.0
Rocks	−3.5

Profile Notes Red. JSH Plotted JSH Job No. 00752 Division No. 10 F. B. 2287 Pg. 21
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JCN Survey by Van Deven Notes R.T. Date 7-8-57
No. Date 10-57 Date 10-57 Map No. Date

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Remarks	
		21	20.7	17.2		28° 58'	883' Cut in Rocks. Line 122+50	
		22	19.9	16.4		28° 08'	847' ?	
		~~23~~	~~xxx~~			28° 12'	850' ?	
		24	18.0	14.5		26° 51'	798'	
		25	18.0	14.5		26° 06'	761'	
		26	18.8	15.3		24° 51'	716'	
		27	17.3	13.8		23° 56'	678'	Zero -0.5
		28	16.5	13.0		22° 39'	631'	Boat +1.0
D-19	D-18	29	15.0	11.5		21° 47'	602'	Tide -4.0
		30	13.2	9.7	8:26	19° 16'	517'	-3.5

F. B. 2287 Pg. 22 Job No. 0075.24 Division No. 10 Notes Red. JSH Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd JCN Checked JCN X-Sec.
Indexed Johnson Date 7-8-57 Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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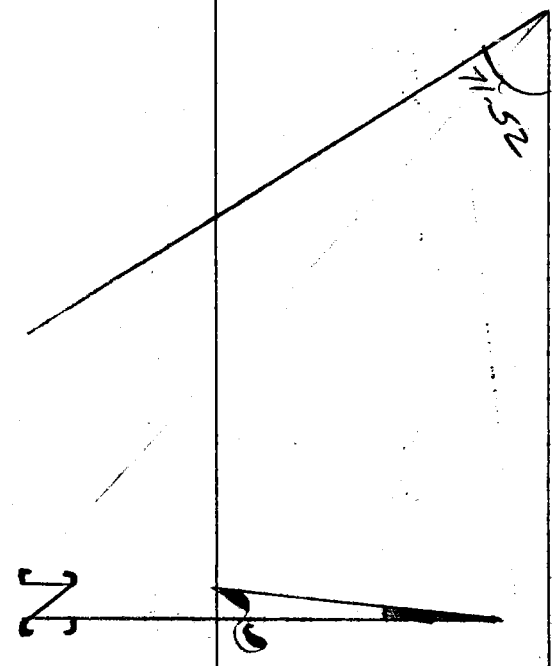
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
122+50	D-18		1	8 15	71 52		
			2		"		
			3		"		
			4		"		
			5		"		
			6		"		
			7		"		
			8		"		
			9		"		
			10		"		
			11		"		
			12		"		
			13		"		
			14		"		
			15		"		
			16		"		
			17		"	Edge of Kelp	
			18		"		
			19		"		
			20		"		



Profile Notes Red. JSH Plotted JSH Job No. 0025.24 Division No. 10 F. B. 2287 Pg. 23
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JCN Survey by Van Deren Notes Wilks Date 7-8-57
No. Date 10-57 Date 10-57 Map No. Indexed Date

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
122+50	D-18	21			71 52		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30		8 26	"		

F. B. 2287 Pg. 29
Job No. 0075.26 Division No. 10 Notes Red. JSH Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Ka Deren Notes Wilks Notes Chkd. JCN Checked JCN X-Sec.
Indexed K. C. Johnson Date 7-8-57 Date 10-57 Date 10-57 No.

76L298 S & E #307 9-54

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STATION	S. S.	H. I.	F. S.	ELEV.	Inst. at 122+50	Sight on 125+00
T.P.	077	10 93		10 16		Inshore 125+00
125+00		+	1 6	12 5		
20' R		+	3 6	14 5	Brk.	
51' R		+	3 3	14 2	"	
80' R		+	2 3	13 2	Bot. Cliff	
		10 9	3 8	7 1	8° 09' 36	
			13 1	-2 2	35 57 154	
			14 6	-3 7	49 03 220	
			17 6	-6 7	60 21 293	
T.P.			3 [illegible]	7 67		

Profile Notes Red. JSH Plotted JSH Job No. 0075.24 Division No. 10 F. B. 2287 Pg. 25
No. Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. Notes Chkd. JCN Checked JCN Survey by English Notes Ed. Date 7-8-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

76298 S & E #307—7-55

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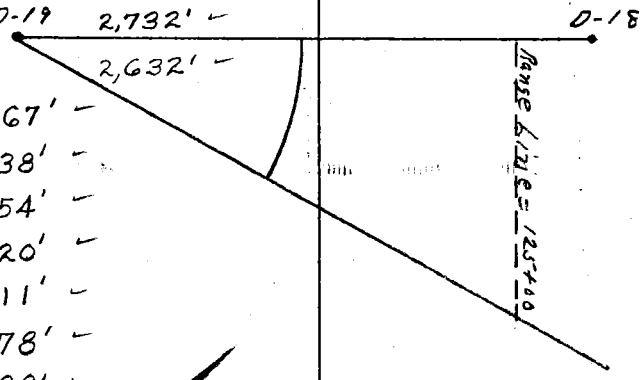
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	STATION Sight On	S. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
D-19	D-18	1	51.4	48.0	9:19	55° 44'	2,956' Cut in Line 125+00
		2	49.0	45.6		55° 24'	2,895'
		3	47.5	44.1		54° 34'	D-19 2,732' D-18
		4	46.4	43.0		54° 04'	2,632'
		5	43.6	40.2		53° 04'	2,467'
		6	42.1	38.7		52° 14'	2,338'
		7	40.5	37.1		51° 38'	2,254'
		8	39.1	35.7		50° 38'	2,120'
		9	38.5	35.1		49° 45'	2,011'
		10	37.7	34.3		48° 34'	1,878'
		11	37.2	33.8		47° 37'	1,788'
		12	36.1	32.7		46° 40'	1,698'
		13	35.0	31.6		45° 31'	1,600'
		14	34.1	30.7		44° 18'	1,500'
		15	33.2	29.8		43° 08'	1,415'
		16	31.7	28.3		41° 54'	1,328'
		17	31.0	27.6		40° 50'	1,256'
		18	29.3	25.9		39° 26'	1,175'
		19	27.8	24.4		38° 14'	Edge of Kelp 1,108'
		20	26.3	22.9		37° 04'	1,048'

Range Line = 125+00



Zero	-0.5
Boat	+1.0
Tide	-3.9
	-3.4

Profile No. ____ Notes Red. JCN Date 10-57 Plotted JCN Date 10-57 Job No. 0075.28 Division No. 10 Survey of Small Craft Harbor F.B. 2287 Pg. 27

X-Sec. No. ____ Notes Chkd. JSH Date 10-57 Checked JSH Date 10-57 Survey by Van Deren Notes RT Date 7-8-57 Map No. ____ Index No. ____ Date ____

76298 S & E #307—7-55

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STATION		S. S.	H. I.		F. S.	ELEV.			
Inst At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks	
		21	25.4	22.0		35° 22'	970'	Cut in Line	125+00
		22	24.0	20.6		34° 37'	930'		
		23	22.4	19.0		33° 06'	865'		
		24	21.6	18.4		32° 08'	828'		
		25	21.1	17.7		30° 48'	775'		
		26	20.3	16.9		29° 34'	728'		
		27	19.3	15.9		28° 25'	690'	Rocks	Zero -0.5
		28	18.2	14.8		26° 48'	633'		Boat +1.0
D-19	D-18	29	16.4	13.0		25° 15'	586'		Tide -3.9
		30	15.2	11.8		23° 43'	537'		-3.4
		31	14.7	10.3		21° 34'	478'		
		32	14.5	11.1		20° 02'	435'		
		33	13.4	10.0		18° 28'	393'		
		34	12.6	9.2		17° 07'	363'	Rock at 373' at 6.2'	
		35	11.7	8.3	9:26	16° 18'	338'		

F. B. 2287 Pg. 26 Job No. 0025.29 Division No. 10 Notes Red. JCN Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. JSH Checked JSH X-Sec.
Indexed R. C. Johnson Date 7-8-57 Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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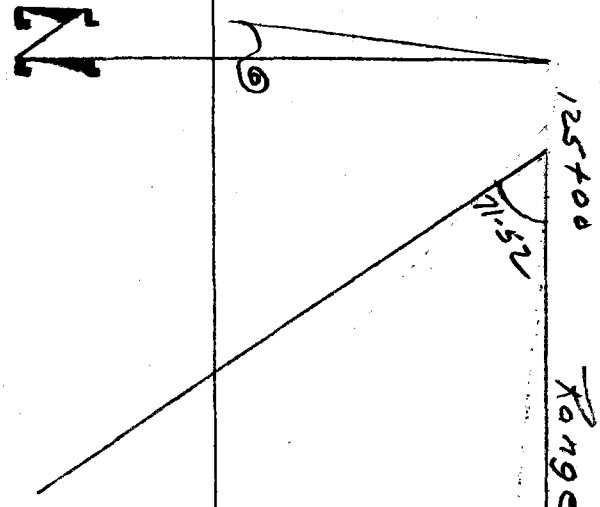
STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
125+00 D-18	1		9 19	71 52		
	2			"		
	3			"		
	4			"		
	5			"		
	6			"		
	7			"		
	8			"		
	9			"		
	10			"		
	11			"		
	12			"		
	13			"		
	14			"		
	15			71 32	∠ Changed	
	16			71 52		
	17			"		
	18			"		
	19			"	Edge of Kelp	
	20			"		



Profile Notes Red. JCN Plotted JCN Job No. 08524 Division No. 10 F. B. 2287 Pg. 29
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JSH Survey by Ken Deren Notes WILKS Date 7-8-58
No. Date 10-57 Date 10-57 Map No. Date

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NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
125+00	D-18	21			71 52		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30			"		
		31			"		
		32			"		
		33			"		
		34			"		
		35		9 26	"		

F. B. 2287 Pg. 30 Job No. 00 25 26 Division No. 10 Notes Red. JCN Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes Wi 1/Ks Notes Chkd. JSH Checked JSH X-Sec.
Indexed C. Johnson Date Date 10-57 Date 10-57 No.

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 125+00	Sight on 127+50
T.P.	1 80	9 47		7 67		Inshore
127+50			0 0	9 5		127+50
16' R.		+	4 2	13 7	Brk.	
58' R.		+	4 3	13 8	"	
13' R.		+	3 5	13 0	Bot. Cliff	
		9 5	3 8	5 7	5° 21'	25'
			2 7	-0 2	17 54	77'
			12 3	-2 8	[illegible]	170'
			12 4	-2 9	[illegible]	189'
			15 5	-6 0	59 33	234'
			14 8	-5 3	[illegible]	280'
			16 8	-7 3	[illegible]	326'
			17 8	-8 3	[illegible]	369'
T.P.			4 [illegible]	5 [illegible]		

Profile Notes Red KRK Plotted KRK Job No. 0075.24 Division No. 10 F. B. 2287 Pg. 31
No. Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. Notes Chkd. VCN Checked VCN Survey by English Notes Ed. Date 7-8-57
No. Date 10-57 Date 10-57 Map No. Index Date

76298 S & E #307—7-55

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NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst At	Sight On	B. S. #	H. I. Depth Rec	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
D-19	D-18	1	51.1	47.9	9:39	59° 35'	3,016' Cut in Line 127+50
		2	49.6	46.4		59° 14'	2,912'
		3	47.2	44.0		58° 38'	D-19 2,780' D-18
		4	45.7	42.5		58° 06'	2,650'
		5	43.2	40.0		57° 25'	2,516'
		6	42.2	39.0		56° 42'	2,383'
		7	40.8	37.6		56° 15'	2,290'
		8	39.9	36.7		55° 33'	2,183'
		9	39.3	36.1		54° 32'	2,034'
		10	38.3	35.1		53° 40'	1,925'
		11	37.3	34.1		52° 32'	1,780'
		12	36.1	32.9		51° 18'	1,655'
		13	35.1	31.9		50° 22'	1,559'
		14	34.2	31.0		49° 14'	1,465'
		15	33.2	30.0		47° 47'	1,350'
		16	31.6	28.4		46° 22'	1,246'
		17	29.0	25.8		44° 36'	1,138'
		18	27.6	24.4		42° 52'	Edge of Kelp 1,043'
		19	22.9	19.7		39° 48'	897'
		20	21.7	18.5		38° 40'	846'

Range Line = 127+50

Zero -0.5
Boat +1.0
Tide -3.7
-3.2

Rocks

Profile Notes Red. KRK Plotted KRK Job No. 0025.28 Division No. 10 F. B. 2287 Pg. 33
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JSH Survey by VanDeren Notes R.T. Date 7-8-57
No. Date 10-57 Date 10-57 Map No. [illegible] Date

76298 S & E #307—7-55

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STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		21	20.7	17.5		37° 17'	793' Cut Rocks in Line 127+50
		22	19.4	16.2		35° 51'	740'
		23	18.8	15.6		34° 33'	695'
		24	17.9	14.7		33° 34'	662'
		25	16.9	13.7		31° 39'	607'
		26	15.8	12.6		29° 34'	544'
		27	14.3	11.1		27° 21'	485'
		28	12.8	9.6	9:46	25° 40'	448'
D-19	D-18	29					Zero -0.5
		30					Boat +1.0
							Tide -3.7
							-3.2

F. B. 2287 Pg. 34 Job No. 0075-28 Division No. 10 Notes Red. KRK Plotted KRK Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. JSH Checked JSH X-Sec.
Indexed J. Johnson Date 7-8-57 Date 10-57 Date 10-57 No.

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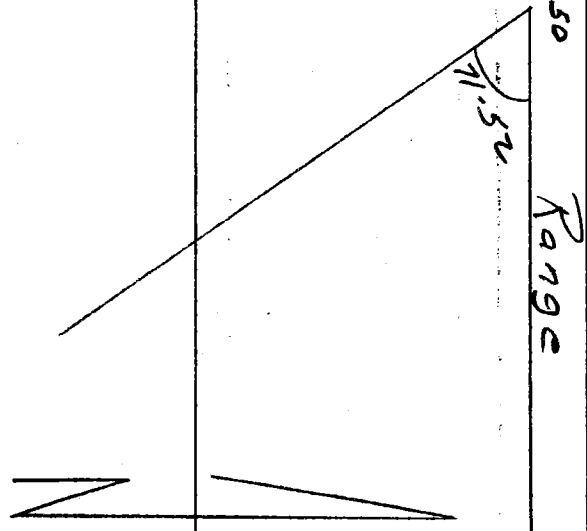
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
127+50	D-18	1			9:39	71° 52	
		2				"	
		3				"	
		4				"	
		5				"	
		6				"	
		7				"	
		8				"	
		9				"	
		10				"	
		11				"	
		12				"	
		13				"	
		14				"	
		15				"	
		16				"	
		17				"	
		18				"	Edge of Kelp
		19				"	
		20				"	



Profile Notes Red. JSH Plotted VCN Job No. 22K-24 Division No. 10 F. B. 2287 Pg. 35
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. VCN Checked JSH Survey by Van Dereen Notes Wilkes Date 7-8-57
No. Date 10-57 Date 10-57 Map No. Date

F. B. 2287 Pg. 36 | Job No. 0015.24 Division No. 10 Notes Red. JSH Plotted JCN

Survey of Small Craft Harbor Date 10-57 Date 10-57 No.

Survey by Van Deren Notes WLIKS Notes Chkd. JCN Checked JCN X-Sec.

Indexed L. C. Johnson Date 7-8-57 Date 10-57 Date 10-57 No.

Profile

76298 S & E #307—7-55

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
127+50	D-18	21			71° 52		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28		9:46	"		

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 127+50	Sight on 130+00
T.P.	3 5	9 0 2		5 4 6		Inshore 130+00
130+00		+	2 3	1 1 3		
11 18		+	3 8	1 2 8	Brk.	
64'R		+	2 8	1 1 8	Bot.	
		9 0	2 4	5 5	7° 04' 31'	
			7 6	1 4	12 [illegible] 82'	
			12 3	-3 3	-5 02 198'	
			13 5	-4 5	52 25 242'	
			15 [illegible]	-6 [illegible]	60 32 295'	
			[illegible] 7	-7 7	67 03 350'	
T.P.			1 65	7 37		

Profile Notes Red. JCM Plotted JSH Job No. 0075.24 Division No. 10 F. B. 2287 Pg. 37
No. Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. Notes Chkd. JSH Checked JCM Survey by English Notes Ed Date 7-8-57
No. Date 10-57 Date 10-57 Map No. ~~[illegible]~~ Date

76298 S & E #307—7-55

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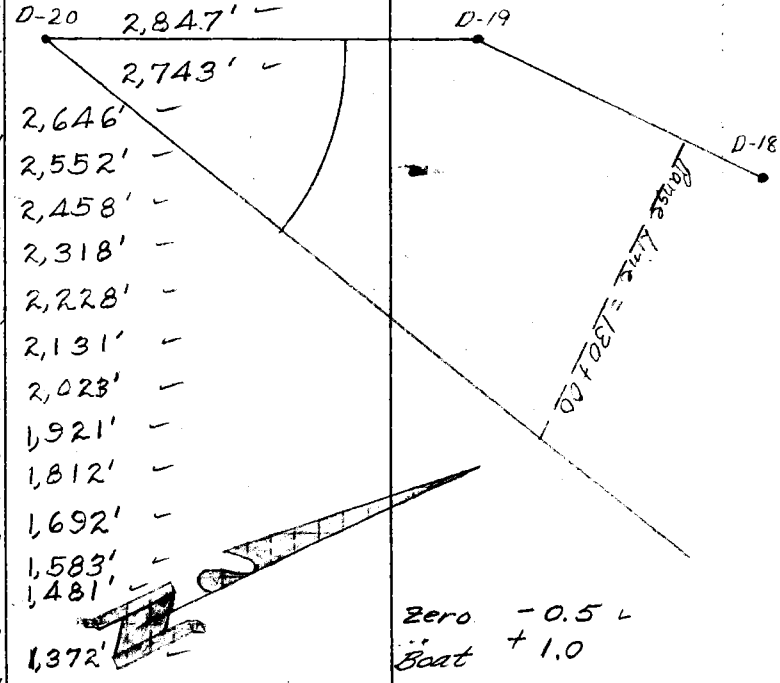
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
D-20	D-19	1	51.6	48.7	10:04	79° 05'	3,013' Cut in Line 130+00
		2	49.0	46.1		78° 36'	2,943'
		3	48.0	45.1		77° 58'	2,847'
		4	46.1	43.2		77° 14'	2,743'
		5	44.2	41.3		76° 33'	2,646'
		6	43.1	40.2		75° 44'	2,552'
		7	42.2	39.3		74° 58'	2,458'
		8	40.8	37.9		73° 42'	2,318'
		9	40.0	37.1		72° 49'	2,228'
		10	39.2	36.3		71° 49'	2,131'
		11	38.7	35.8		70° 37'	2,023'
		12	38.1	35.2		69° 20'	1,921'
		13	37.4	34.5		67° 49'	1,812'
		14	36.7	33.8		66° 09'	1,692'
		15	35.8	32.9		64° 25'	1,583'
		16	34.8	31.9		62° 38'	1,481'
		17	33.4	30.5		60° 34'	1,372'
		18	32.0	29.1		58° 47'	1,295'
		19	30.3	27.4		57° 16'	1,226'
		20	27.8	24.9		55° 00'	1,128'



Zero -0.5
Boat +1.0
Tide -3.4
-2.9

Profile Notes Red. JCN Plotted JSH Job No. 2528 Division No. 10 F. B. 2287 Pg. 39
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JCN Survey by Van Deren Notes P.T. Date 7-8-57
No. Date 10-57 Date 10-57 Map No. [illegible] Date

76298 S & E #307—7-55

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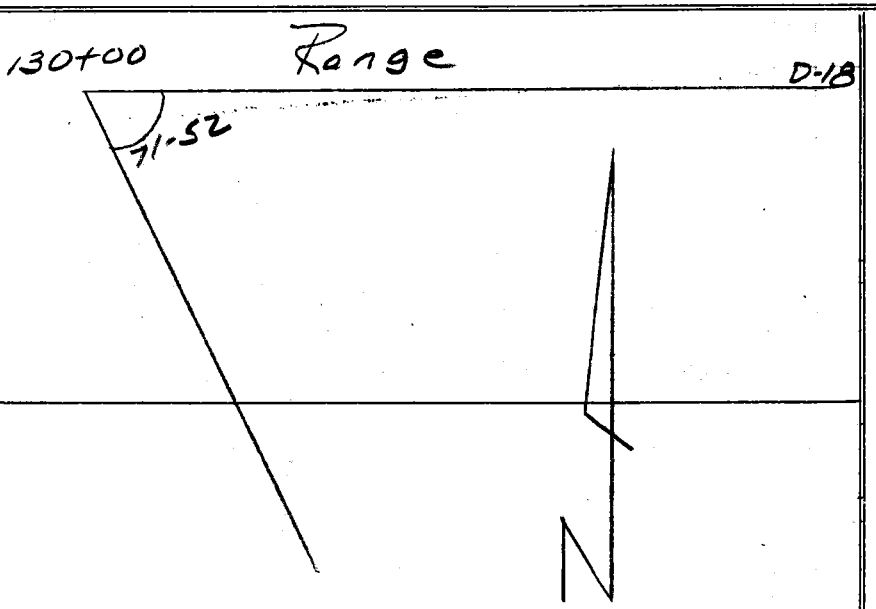
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.			
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks	
		21	25.9	23.0		52° 37'		1,035' Rocks Cut in Line 130+00	
		22	21.6	18.7		49° 20'	Edge of Kelp	916'	
		23	20.0	17.1		47° 05'		840'	
		24	19.9	17.0		46° 10'		812'	
		25	17.6	14.7		44° 09'		750'	
		26	16.8	13.9		42° 15'		697'	
		27	15.8	12.9		40° 45'		655'	
D-20	D-19	28	14.1	11.2		39° 04'		609'	
		29	13.4	10.5		37° 20'		564'	Zero -0.5
		30	12.2	9.3		35° 22'		515'	Boat +1.0
		31	11.0	8.1		33° 52'		478'	Tide -3.4
		32	10.5	7.6		31° 55'		432'	-2.9
		33	8.5	5.6		30° 20'		395'	
		34	8.4	5.5		28° 26'		352'	
		35	8.8	5.9	10' 11	26° 42'		312'	

F. B. 2287 Pg. 40
Job No. 0075.29 Division No. 10 Notes Red. JCN Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. JSH Checked JCN X-Sec.
Indexed K. T. Johnson Date 7-8-57 Date 10-57 Date 10-57 No.

Profile	Notes Red. JCN	Plotted JSH	Job No. 007524	Division No. 10	F. B. 2287 Pg. 41
No.	Date 10-57	Date 10-57	Survey of Small Craft Harbor		
X-Sec.	Notes Chkd. JSH	Checked JCN	Survey by Van Deren	Notes Wilks	Date 7-8-57
No.	Date 10-57	Date 10-57	Map No. [redacted]	Indexed [redacted]	Date



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On 130+00 D-18	#	Depth Rec. Adj.	Time 10:04	Hor. Ang. 71° 52'	
	1			"	
	2			"	
	3			"	
	4			"	
	5			"	
	6			"	
	7			"	
	8			"	
	9			"	
	10			"	
	11			"	
	12			"	
	13			"	
	14			"	
	15			"	
	16			"	
	17			"	
	18			"	
	19			"	
	20			"	

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76293 S & E #307—7-55

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
130+00	D-18	21				71° 52	
		22				"	Edge of Kelp
		23				71° 05 *	
		24				71° 52	
		25				"	
		26				"	
		27				71 30	Note Change of Angle
		28				"	" " " "
		29				71 52	
		30				"	
		31				"	
		32				"	
		33				"	
		34				"	
		35			10:11	"	

F. B. 2287 Pg. 42 Job No. 0025.24 Division No. 10 Notes Red. JCN Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes Wilks Notes Chkd. JSH Checked JCN X-Sec.
Indexed C. Johnson Date 7-8-57 Date 10-57 Date 10-57 No.

76L298 S & E #307 9-54

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 130+00	Sight on 132+50
T.P.	1 03	8 40		7 37		Inshore
132+50			+ 4 5	12 9		132+50
33 'R			+ 4 3	12 7		
65 'R			+ 5 5	13 9	Bot. Cliff	
		8 4	4 1	4 3	12° 02' 52 ✓	
			7 3	1 1	21 06 90 ✓	
			10 0	-1 6	35 36 153 ✓	
			11 0	-2 6	50 06 226 ✓	
			13 9	-5 5	60 59 298 ✓	
			13 2	-4 8	68 49 367 ✓	
			15 3	-6 9	72 51 413 ✓	
			17 8	-9 4	76 58 470 ✓	
T.P.			3 17	5 23		

Profile Notes Red. VSH Plotted VCN Job No. 0075.24 Division No. 10 F. B. 2287 Pg. 43
No. Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. Notes Chkd. VCN Checked VSH Survey by English Notes Ed. Date 7-8-57
No. Date 10-57 Date 10-57 Map No. R. Robinson Date

76298 S & E #307—7-55

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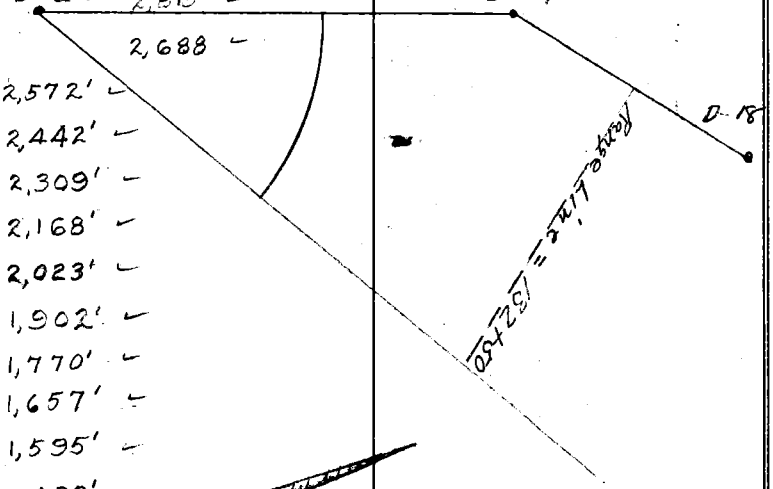
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		1	49.8	47.0	10:23	82° 38'	3,005' Cut in Line 132+50
		2	48.2	45.4		82° 12'	2,938'
		3	46.2	43.4		81° 28'	D-20 2,815
		4	44.1	41.3		80° 40'	2,688
		5	42.6	39.8		79° 52'	2,572'
		6	40.7	37.9		78° 55'	2,442'
		7	40.2	37.4		77° 47'	2,309'
D-20	D-19	8	39.3	36.5		76° 28'	2,168'
		9	38.6	35.8		75° 00'	2,023'
		10	37.5	34.7		73° 37'	1,902'
		11	36.4	33.6		71° 54'	1,770'
		12	35.9	33.1		70° 16'	1,657'
		13	35.7	32.9		69° 18'	1,595'
		14	34.7	31.9		67° 37'	1,499'
		15	33.3	30.5		66° 14'	1,418'
		16	32.2	29.4		64° 44'	1,342'
		17	30.1	27.3		62° 37'	1,245'
		18	28.0	25.2		60° 25'	1,156'
		19	26.8	24.0		58° 18'	1,073'
		20	25.3	22.5		55° 52'	Edge of Kelp 990'



Zero	-0.5
Boat	+1.0
Tide	-3.3
	-2.8

Profile Notes Red. JSH Plotted JCN Job No. 007524 Division No. 10 F. B. 2287 Pg. 45
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JSH Survey by Van Deren Notes R.T. Date 7-8-57
No. Date 10-57 Date 10-57 Map No. [illegible] Date

76298 S & E #307—7-55

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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F.B. 2287 Pg. 46 | Job No. 001524 Division No. 10 Notes Red. JSH Plotted JCN No. Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No. X-Sec.
Survey by Van Oren Notes R.T. Notes Chkd. JCN Checked JSH
Indexed ~~L. C. Johnson~~ Date 7-8-57 Date 10-57 Date 10-57 No.

STATION Inst. At	Sight On	B. S. #	H. I. Rec.	Depth Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks	
		21	22.8	20.1		53° 36'	918'	Rock at 915 at 16.2' Cut in Line 132+50	
		22	19.2	16.5		51° 48'	865'	Rock at 845' at 11.8'	
		23	16.1	13.4		50° 11'	820'	Rocks	
		24	17.6	14.9		48° 51'	785'		
		25	16.6	13.9		46° 36'	728'		
		26	15.8	13.1		45° 41'	705'		
		27	15.0	12.3		42° 39'	632'		
D-20	D-19	28	14.0	11.3		41° 22'	605'		Zero -0.5
		29	12.2	9.5		39° 20'	560'		Boat +1.0
		30	11.6	8.9		38° 18'	538'		Tide -3.2
		31	11.2	8.5	10:31	35° 45'	488'		-2.7
		32							

76298 S & E #307—7-55

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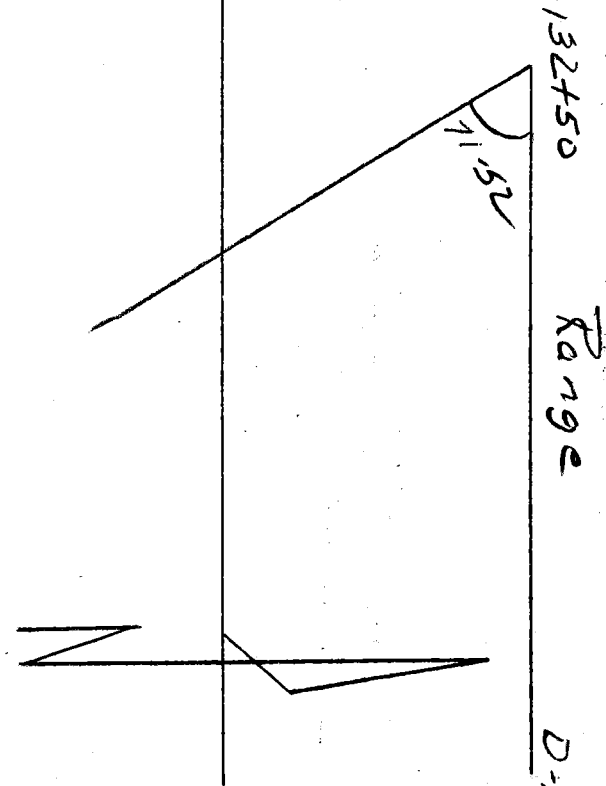
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. B.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.		Remarks
132+50	D-18	1		10 23	71° 52		
		2			"		
		3			"		
		4			"		
		5			"		
		6			72 20'	*	
		7			"	*	
		8			"	*	
		9			71 52		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"	Edge of Kelp	



Profile Notes Red. JCN Plotted JSH Job No. 0075.24 Division No. 10 F. B. 2287 Pg. 47
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JCN Survey by Van Deren Notes Wilks Date 7-8-57
No. Date 10-57 Date 10-57 Map No. [illegible] Date

76298 S & E #307—7-55

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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F. B. 2287 Pg. 48 Job No. 2025.24 Division No. 10 Notes Red. JCN Plotted JSH
Survey of Small Craft Harbor Date 10-57 Date 10-5 No.
Survey by Van Deren Notes Walks Chkd. JSH Checked JCN X-Sec.
Indexed K. C. Johnson Date 7-8-57 Date 10-57 Date 10-57 No.

Profile

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	# Rec	Depth Adj.	Time	Hor. Ang.		Remarks
132+50 D-18	21			71° 52'		
	22			"		
	23			"		
	24			"		
	25			"		
	26			"		
	27			"		
	28			70° 40	*	
	29			71 52		
	30			"		
	31		10 31	"		

76L298 S & E #307 9-54

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 132+50	Sight on 134+39.94
						Inshore
T.P.	2 68	7 91		5 23	D-19 =	134+~~39~~ 93.94
134+~~39~~ 93.94		+	4 59	12 50	D-19, el = 12.495	, F.B. 2243-25
134+~~39~~ 93.94		+	3 8	11 7	ground	
14 'R		+	3 3	11 2	Bot. Cliff	
59 'L		+	3 8	11 7	T.Brk.	
59 'L		+	2 7	10 6	B.	
		7 9	4 0	3 9	25° 27' 82'	
			6 6	1 3	32 58 107'	
			8 3	-0 4	48 04 163'	
			10 3	-2 4	63 28 242'	
			12 7	-4 8	66 50 264'	
			15 0	-7 1	72 24 310'	
			14 2	-6 3	74 51 334'	

Profile Notes Red. JCN Plotted JSH Job No. 0075.24 Division No. 10 F. B. 2287 Pg. 49
No. Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. Notes Chkd. JSH Checked JCN Survey by English Notes Ed Date 7-8-57
No. Date 10-57 Date 10-57 Map No. ~~X-Sec.~~ Date

76298 S & E #307—7-55

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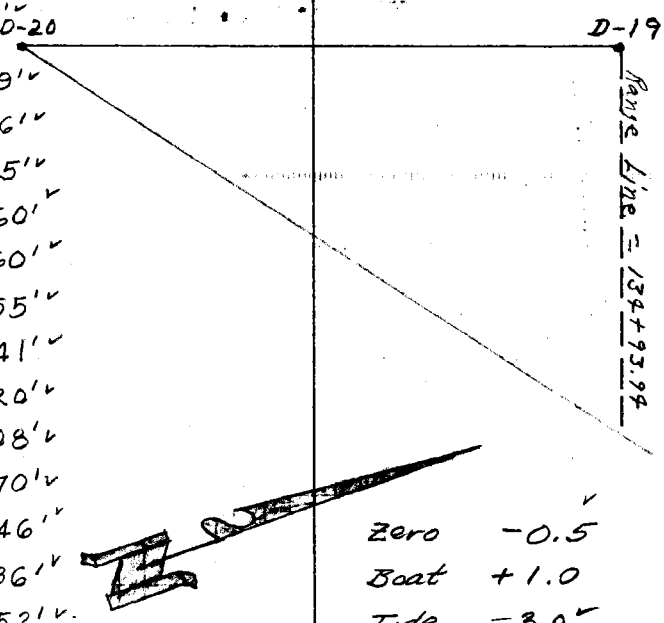
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		1	49.7	47.2	10:54	86° 58'	3,118' Cut in Line 134+93.94 = D-19
		2	48.8	~~43.3~~	46.3	86° 36'	3,038'
		3	47.4	44.9		86° 03'	2,909' D-20
		4	44.6	42.1		85° 18'	2,759'
		5	43.1	40.6		84° 12'	2,566'
		6	41.3	38.8		83° 10'	2,405'
		7	40.3	37.8		82° 06'	2,260'
		8	39.2	36.7		81° 18'	2,160'
D-20	D-19	9	38.7	~~35.2~~	36.2	80° 23'	2,055'
		10	37.9	35.4		79° 16'	1,941'
		11	37.7	35.2		77° 59'	1,820'
		12	37.0	34.5		76° 34'	1,708'
		13	35.3	32.8		74° 37'	1,570'
		14	33.2	30.7		72° 40'	1,446'
		15	32.2	29.7		70° 39'	1,336'
		16	29.8	27.3		68° 52'	1,252'
		17	27.6	25.1		66° 26'	1,152'
		18	26.0	23.5		63° 56'	1,058'
		19	25.4	22.9		62° 22'	1,005' Edge of Kelp
		20	23.0	20.5		59° 58'	933'



Zero	−0.5
Boat	+1.0
Tide	−3.0
	−2.5

Profile Notes Red. JCN Plotted JSH Job No. 007524 Division No. 10 F. B. 2287 Pg. 51
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JCN Survey by Van Deren Notes R.T. Date 7-8-57
No. Date 10-57 Date 10-57 Map No. Date

76298 S & E #307—7-55

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F. B. 2287 Pg. 52 | Job No. 22521 Division No. 10 Notes Red. JCN Plotted USH Date 10-57 No.
Profile
Survey of Small Craft Harbor Date 10-57 X-Sec.
Survey by Van Deren Notes R.T. Notes Chkd. JSH Checked VCN
Indexed E. C. Johnson Date 7-8-57 Date 10-57 No.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Depth Adj.	Time	Hor. Ang.	Remarks	
		21	20.4	18.0		58° 28'	890' Cut in Line	134+93.94=0-19
		22	17.2	14.8		56° 34'	840' Rocks	
		23	16.7	14.3		54° 26'	788'	
		24	16.4	14.0		52° 25'	743'	
		25	14.0	11.6		49° 19'	678'	
		26	11.1	8.7		46° 19'	620' Rock at 620 at 3.7'	
		27	10.9	8.5	11:02	43° 25'	568' Rocky	
0-20	0-19	28						
		29						
		30						

Zero -0.5
Boat +1.0
Tide -2.9
-2.4

76298 S & E #307—7-55

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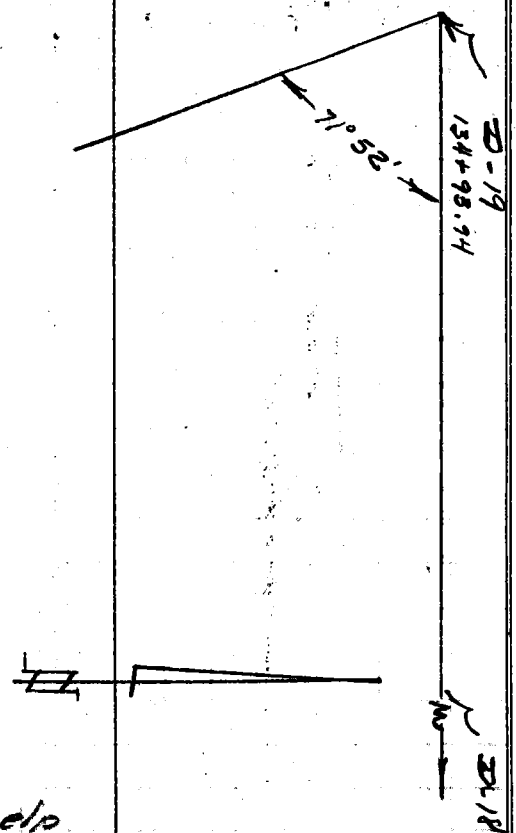
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
D-19	D-18	1		10:54	71° 52		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
		8			"		
		9			"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"	Edge of Kelp	
		20			"		



Profile Notes Red. JCN Plotted JSH Job No. 00 76.24 Division No. 10 F. B. 2287 Pg. 53
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JCN Survey by Van Doren Notes W. Hks Date 7-8-57
No. Date 10-57 Date 10-57 Map No. Index Johnson Date

76298 S & E #307—7-55

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NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
D-19	D-18	21			71' 52		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27		11 02	"		

F. B. 2287 Pg. 54 Job No. 0076.24 Division No. 10 Notes Red. JCN Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by VanDeren Notes Wilks Notes Chkd. JSH Checked JCN X-Sec.
Indexed K. O. Johnson Date 7-8-57 Date 10-57 Date 10-57 No.

Notes Ck'd by JCN	Survey of Small Cr Harbor
Map No.	JN 0075.29 Tape Std °F
Office Work JCN	Surveyed by M.A. Van Deren
Checked KRK	Notes Van Date 7-9-57
Date 10-57	Indexed J. C. Johnson

F. B. 2287 PG. 55

Tide Gauge Readings at Santa Monica

All Readings are on Daylight Savingtime

7-9-57

Scale on 2.7

Gauge Time	Watch Time		Predicted Tide
7:00 AM		+2.8	2.4
7:30 "		+3.5	2.9
8:00 "		+3.7	3.2
8:30 "		+3.8	3.6
9:00 "		+4.0	3.8
9:30 "		+4.1	3.8
10:00 "		+4.2	3.7
10:30 "		+3.8	3.6
11:00 "		+3.6	3.4
11:30 "		+3.3	3.2
12:00 "		+3.0	2.7
12:30 P.M.		+2.7	
1:00 "		+2.5	
1:30 "		+2.4	
2:00 "		+2.3	
2:30 "	2:30	+2.3	

Note: Any Additions or Changes on this Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend this side of this line.

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76F309S S&E #247 1-56

76F309S S&E #247 1-56

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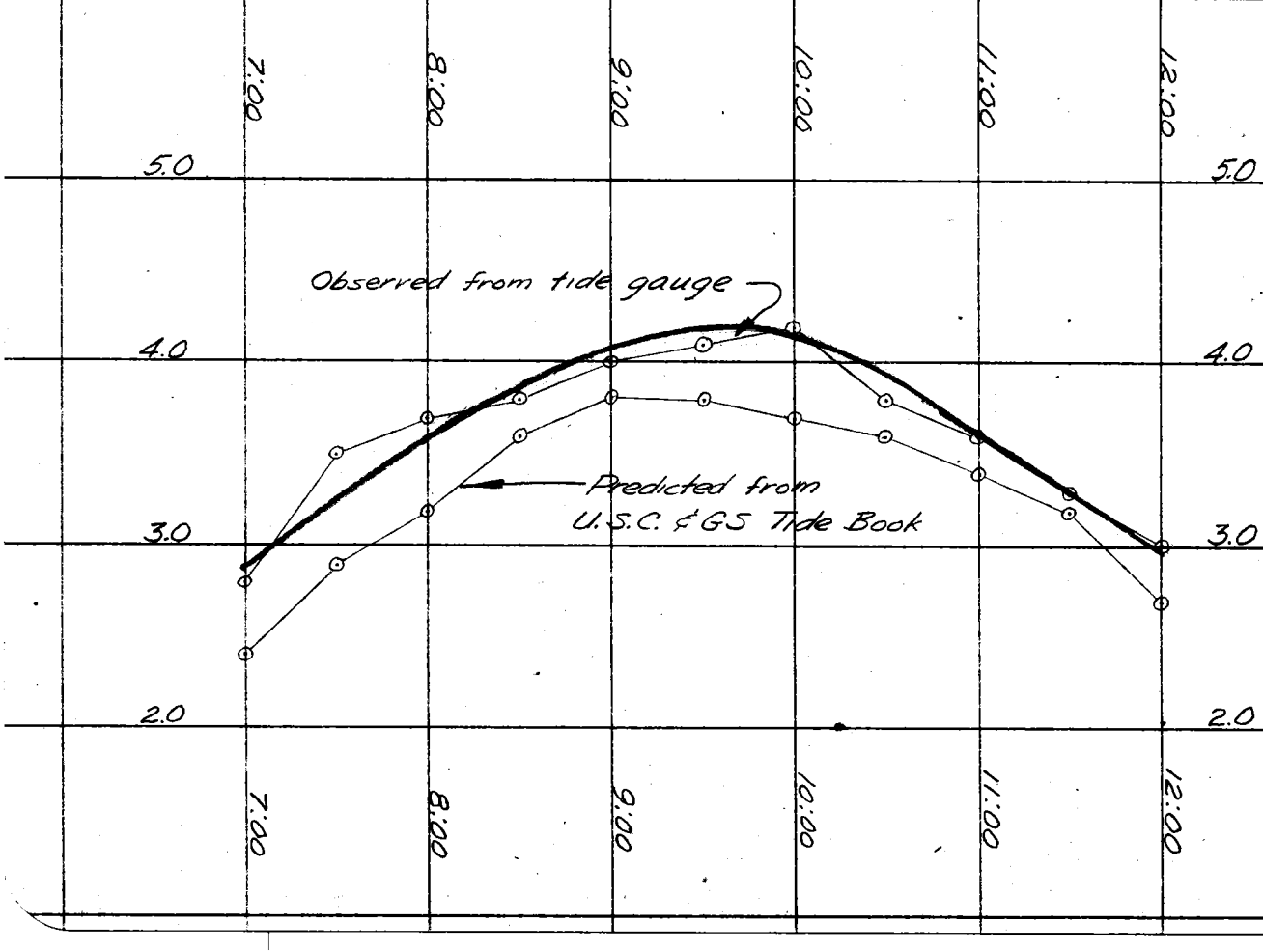
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend this side of this line.



Notes Ck'd by KRK
Map No.
Office Work JCN
Checked KRK
Date 10-5-7

Survey of Small Craft Harbor
JN 0075-24 Tape Std °F
Surveyed by
Notes Date
Indexed

July 9, 1957

F. B. 2287 PG. 56

76L298 S & E #307 9-54

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NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 140+00	Sight on 137+50
						Inshore 137+50
134+39.94	2 99	15 49		12 50	D-19, el = 12.495,	F.B. 2243-~~26~~ 45
T.P.	0 61	6 66	9 44	6 05		
134+39.94		+	4 2	10 9		
12 R		+	4 0	10 7	Bot. Cliff	
19 L		+	4 0	10 7	Brk.	
—		6 7	0 0	6 7	12 02	52
			4 7	2 0	20 36	90
			7 1	-0 4	39 01	181
			9 2	-2 5	51 11	260
			10 5	-3 8	58 13	321
			11 4	-4 7	65 07	399
			12 9	-6 2	67 36	435
			15 3	-9 6	71 12	496
			17 4	-10 7	72 55	530
T.P.			1 40	5 26		

Profile
Notes Red. JCN Plotted JSH Job No. 0075.24 Division No. 10 F. B. 2287 Pg. 57
No. Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. Notes Chkd. JSH Checked JCN Survey by English Notes Ed. Date 7-9-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

76298 S & E #307—7-55

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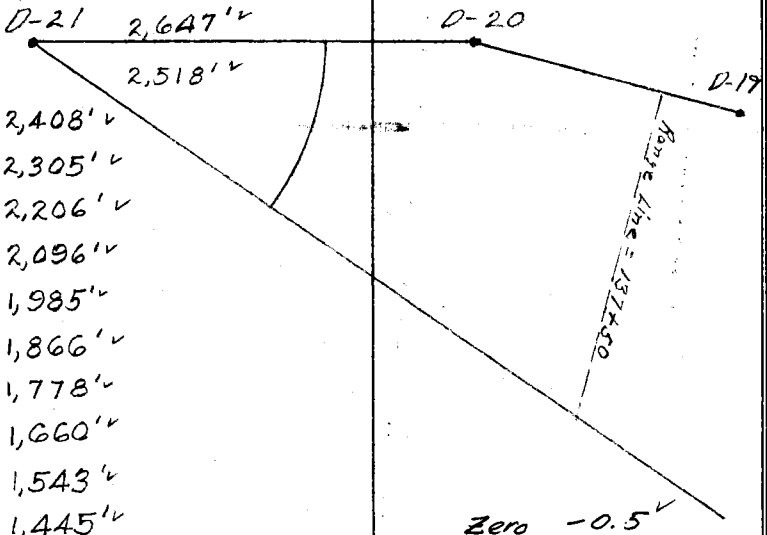
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		1	52.4	49.3	8:00	98° 21'	3,137' Cut in Line 137+50
		2	50.4	47.3		96° 58'	2,940'
		3	48.5	45.4		95° 50'	2,843'
		4	46.5	43.4		94° 37'	D-21 2,647' D-20
		5	44.0	40.9		93° 18'	2,518' D-19
		6	42.8	39.7		92° 08'	2,408'
		7	41.5	38.4		90° 53'	2,305'
D-21	D-20	8	40.7	37.6		89° 40'	2,206'
		9	39.8	36.7		88° 11'	2,096'
		10	39.6	36.5		86° 25'	1,985'
		11	39.0	35.9		84° 25'	1,866'
		12	38.2	35.1		82° 50'	1,778'
		13	37.3	34.2		80° 26'	1,660'
		14	35.9	32.8		77° 45'	1,543'
		15	34.7	31.6		75° 10'	1,445'
		16	33.1	30.0		72° 04'	1,333'
		17	31.6	28.5		68° 50'	1,230'
		18	30.2	27.1		65° 46'	1,142' 1,051'
		19	27.8	24.7		62° 20'	Edge of Kelp
		20	26.2	23.1		58° 25'	957'



Range Line = 137+50

Zero -0.5
Boat +1.0
Tide -3.6
-3.1

Profile Notes Red. JCN Plotted JSH Job No. 0075.24 Division No. 10 F. B. 2287 Pg. 59
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JCN Survey by Van Deren Notes A.T. Date 7-9-57
No. Date 10-57 Date 10-57 Map No. Date

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Remarks	
		21	24.2	21.1		54° 54	878' Cut in Line 137+50	
		22	21.7	18.6		51° 43	811'	
		23	19.5	16.4		49° 06	757' Rocky	
		24	18.3	15.2		47° 10	718'	
		25	16.5	13.4		44° 34	670'	
		26	14.4	11.3		41° 29	612'	
		27	13.7	10.6		38° 51	562'	
D-21	D-20	28	12.9	9.8		36° 01	513'	
		29	x 10.2	7.1		34° 07	480'	Zero -0.5
		30	x 7.9	4.8		32° 44	455'	Boat +1.0
		31	6.9	3.8	8:06	29° 48	405'	Tide -3.6
								-3.1

F. B. 2287 Pg. 60 Job No. 0075-24 Division No. 10 Notes Red. JCN Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes P.T. Notes Chkd. JSH Checked JCN X-Sec.
Indexed E. C. Johnson Date 7-9-57 Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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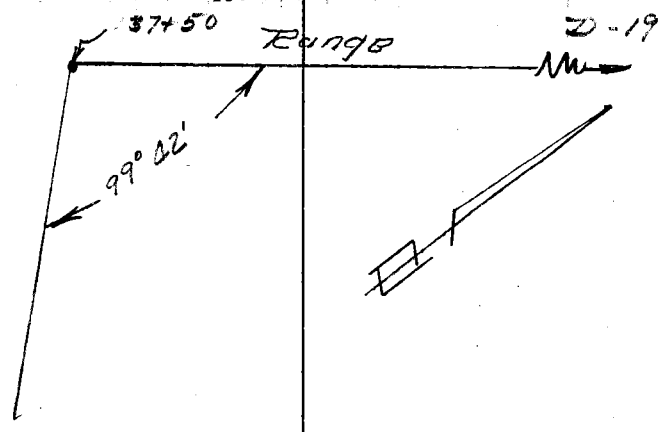
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
137+50	D-19	1		8:00	99° 42		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
		8			"		
		9			"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"	Begining of Kelp	
		20			"		



Profile Notes Red. VSH Plotted VCN Job No. 007524 Division No. 10 F. B. 2287 Pg. 61
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd VCN Checked VSH Survey by Ken Dennis Wilks Date 7-9-57
No. Date 10-57 Date 10-57 Map No. Date Date

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
137+50	D-19	21			99° 42'		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30			"		
		31		8:06	"		

F. B. 2287 Pg. 62 Job No. 0075.24 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes Wilks Notes Chkd. JCN Checked JSH X-Sec.
Indexed C. Johnson Date 7-9-57 Date 10-57 Date 10-57 No.

76L298 S & E #307 9-54

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 137+50	Sight on 140+00
T.P.	096	622		526		Inshore
140+00		+	52	114	Bot. Cliff	140+00
15 'L		+	48	110	Brk.	
		62				
			00	62	12° 18'	57
			35	27	18 31	90
			55	07	27 57	148
			65	-0 3	35 33	206
			90	-2 8	41 33	265
			115	-5 3	44 18	297
			120	-5 8	48 34	356
			128	-6 6	51 33	407
			150	-8 8	54 39	471
			157	-9 5	56 31	517
T.P.			269	353		

Profile Notes Red. VCN Plotted JSH Job No. 0075.24 Division No. 10 F. B. 2287 Pg. 63
No. Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. Notes Chkd. VSH Checked VCN Survey by English Notes Eq. Date 7-9-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

76298 S & E #307—7-55

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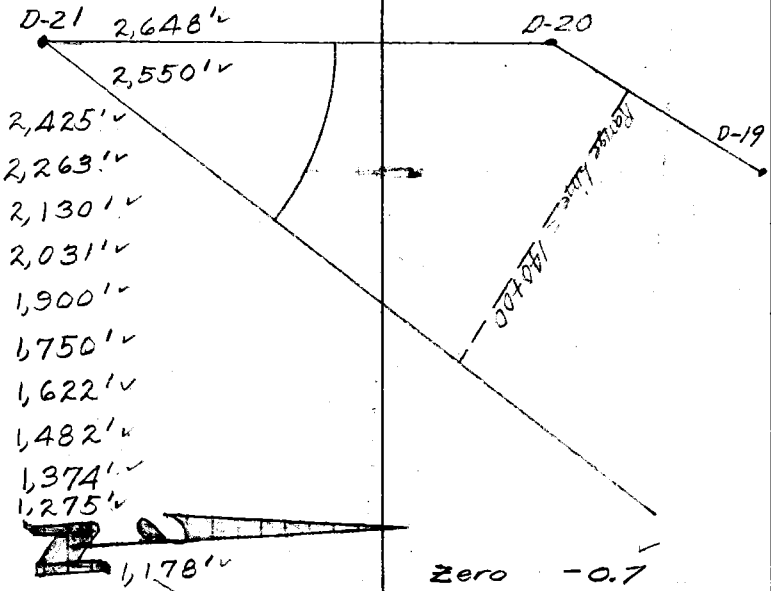
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
D-21	D-20	1	51.2	47.7	8:22	102° 05'	2,949' Cut in Line 140+00
		2	49.5	46.0		100° 56'	2,772'
		3	47.1	43.6		100° 26'	D-21 2,648'
		4	45.8	42.3		99° 20'	2,550'
		5	43.9	40.4		98° 18'	2,425'
		6	42.3	38.8		96° 47'	2,263'
		7	41.8	38.3		95° 28'	2,130'
		8	40.7	37.2		94° 14'	2,031'
		9	39.7	36.2		93° 26'	1,900'
		10	38.2	34.7		90° 13'	1,750'
		11	37.1	33.6		87° 53'	1,622'
		12	36.1	32.6		84° 50'	1,482'
		13	34.8	31.3		82° 15'	1,374'
		14	32.8	29.3		79° 33'	1,275'
		15	30.6	27.1		76° 30'	1,178'
		16	29.3	25.8		73° 21'	1,092'
		17	28.7	25.2		69° 40'	1,005'
		18	27.9	24.4		66° 45'	933' Edge of Kelp
		19	23.8	20.3		63° 00'	858'
		20	20.8	17.3		58° 35'	779'



Zero	-0.7
Boat	+1.0
Tide	-3.8
	-3.5

Profile Notes Red. JCN Plotted JSH Job No. 0075.24 Division No. 10 F. B. 2287 Pg. 65
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JCN Survey by Van Deren Notes K.T. Date 7-9-57
No. Date 10-57 Date 10-57 Map No. Made by Johnson Date

76298 S & E #307—7-55

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NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Remarks	
		21	17.8	14.3		54° 34'	706'	Cut in Line 140+00
		22	16.4	12.9		51° 31'	671'	
		23	15.4	11.9		48° 03'	607'	
		24	14.1	10.6		44° 26'	555'	
		25	13.0	9.5		41° 15'	510'	
		26	9.8	6.3	8:28	37° 34'	460'	
		27						
		28						Zero -0.7
D-21	D-20	29						Boat +1.0
		30						Tide -3.8
								-3.5

F. B. 2287 Pg. 66 Job No. 0026.24 Division No. 10 Notes Red. VCN Plotted VSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deven Notes R.T. Notes Chkd. VSH Checked VCN X-Sec.
Indexed K. C. Johnson Date 7-9-57 Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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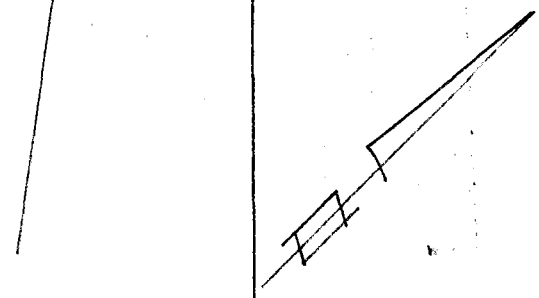
STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
140+00	D-19	1		8:22	99° 42	140+00 Range	To D-19
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
		8			"		
		9			"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"	Begining of Kelp	
		19			"		
		20			"		



Profile Notes Red. JCN Plotted JSH Job No. 0075.24 Division No. 10 F. B. 2287 Pg. 67
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JCN Survey by Van Deren Notes Wilks Date 7-9-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

76298 S & E #307—7-55

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NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
140+00	D-19	21			19° 42		
		22			"		
		23			"		
		24			"		
		25			"		
		26		8:28	"		

F. B. 2287 Pg. 68 Job No. 0075.24 Division No. Notes Red. JCN Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Heren Notes D. Wilks Notes Chkd. JSH Checked JCN X-Sec.
Indexed [illegible] Date 7-9-57 Date 10-57 Date 10-57 No.

76L298 S & E #307 9-54

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 145+00	Sight on 142+50
T.P.	2 55	6 08		3 53		Inshore
142+50		+	5 2	11 3		142+50
6 'R		+	5 0	11 1	Bot. Cliff	
12 'L		+	5 0	11 1	Brk.	
12 'L		+	3 0	9 1	"	
		6 1	3 7	2 4	8° 00' 37'	
			4 7	1 4	15 34 69'	
			5 6	0 5	26 18 111'	
			6 0	0 1	39 22 160'	
			11 6	-5 5	54 21 227'	
			12 5	-6 4	74 47 352'	
			13 3	-7 2	79 35 395'	
			14 9	-8 8	84 55 454'	
			15 1	-9 0	89 30 522'	
			16 4	10 3	95 48 655'	
T.P.			2 46	3 62		

Profile Notes Red JCN Plotted JSH Job No. 0075.24 Division No. 10 F. B. 2287 Pg. 69
No. Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. Notes Chkd. JSH Checked JCN Survey by English Notes Ed Date 7-9-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

76298 S & E #307—7-55

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NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile No. ____ X-Sec. No. ____ Notes Red. JSH Date 10-57 Notes Chkd. JCN Date 10-57 Checked JSH Date 10-57 Plotted JCN Date 10-57 Job No. 002524 Survey of Small Craft Harbor Survey by Van Deren Map No. ____ Division No. 10 Notes E.T. Date 7-8-57 Date ____ F. B. 2287 Pg. 71

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		1			8:42	108° 03'	3,127 ✓ Cut in Line 142+50
		2				106° 49'	2,818 ✓
		3	49.2 ✓	45.8 ✓		[illegible]	0-21 2,560' ✓ 0-20
		4				104° 20'	2,351' ✓
		5			8:43	[illegible]	Sounder 2,275' ✓
		6	39.5 ✓	36.0	9:05	[illegible]	Trouble 1,905' ✓
		7	38.9 ✓	35.4		[illegible] 18'	1,765' ✓
0-21	0-20	8	37.8 ✓	34.3 ✓		97° 30'	1,621' ✓
		9	36.2 ✓	32.7 ✓		95° 27'	1,490' ✓
		10	35.4 ✓	31.9 ✓		93° 38'	1,383' ✓
		11	34.1 ✓	30.6 ✓		91° 54'	1,305' ✓
		12	32.2 ✓	28.7 ✓		89° 52'	1,215' ✓
		13	29.6 ✓	26.1 ✓		87° 05'	1,115' ✓
		14	26.9 ✓	23.4 ✓		84° 00'	1,022' ✓
		15	26.1 ✓	22.6 ✓		81° 13'	947' ✓
		16	23.4 ✓	19.9 ✓		78° 40'	879' ✓
		17	20.9 ✓	17.4 ✓		75° 29'	814' ✓
		18	19.5 ✓	16.0 ✓		73° 41'	792' ✓ Rocky Edge Of Kelp
		19	17.1 ✓	13.6 ✓		70° 59'	745' ✓
		20	15.7 ✓	12.2 ✓		67° 56'	695' ✓

	1-5	6-25
Shot		
Zero	-0.5	-0.4
Boat	+1.0	+1.0
Tide	-3.9 ✓	-4.1 ✓
	-3.4 ✓	-3.5 ✓

Range Line = 142+00

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Rocky Remarks	
		21	14.5	11.0		64° 37'	648' Cut in Line 142+50	
		22	12.8	9.3		58° 44'	573'	
		23	12.0	8.5		56° 02'	540' Rock at 545' at 5.5'	
		24	11.9	8.4		50° 01'	476'	
		25	10.2	6.7	9:09	44 54	425'	
		26						
		27						
		28						
D-21	D-20	29					Shot	6-25
		30					Zero	-0.4
							Boat	+1.0
							Tide	-4.1
								-3.5

F. B. 2287 Pg. 72 Job No. 0075.29 Division No. 10 Notes Red. VSH Plotted VCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes P.T. Notes Chkd VCN Checked VSH X-Sec.
Indexed C. Johnson Date 7-9-57 Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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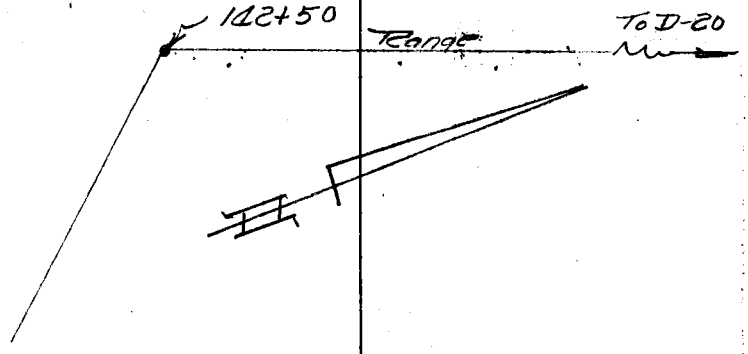
LOS ANGELES COUNTY ENGINEER
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
142+50	D-20	1			8:42	118° 08'	
		2				"	
		3				"	
		4				"	
		5			8:43	"	
		6			9:05	"	
		7				"	
		8				"	
		9				"	
		10				"	
		11				"	
		12				"	
		13				"	
		14				"	
		15				"	
		16				"	
		17				"	
		18				"	Begining of Kelp
		19				"	
		20				"	



Profile Notes Red. JSH Plotted JCN Job No. 0075.2d Division No. 10 F. B. 2287 Pg. 73
No. Date 10-5-7 Date 10-5-7 Survey of Smith Craft Harbor
X-Sec. Notes Chkd. JCN Checked JSH Survey by Ken Berg Notes Wilks Date 7-9-57
No. Date 10-5-7 Date 10-5-7 Map No. Date

76298 S & E #307—7-55

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F. B. 2287 Pg. 74 Job No. 0075.24 Division No. 10 Notes Red. VSH Plotted JCN
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Dieren Notes D. Wilks Notes Chkd. JCN Checked VSH
Indexed K. C. Johnson Date 7-9-57 Date 10-57 No.
Profile X-Sec.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
112+50	D-20	21			118° 08		
		22			"		
		23			"		
		24			"		
		25		9:09	"		

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 142+50	Sight on 145+00
T.P.	3 13	6 75		3 62		Inshore
145+00		+	4 5	11 3	Bot. Cliff	145+00
22' L			0 0	6 8	Brk.	
		6 8				
			4 1	2 7	11° 40' 66'	
			6 4	0 4	19 06 120'	
			7 0	-0 2	24 35 172'	
			8 8	-2 0	28 43 219'	
			11 2	-4 4	35 01 317'	
			12 6	-5 8	35 59 336'	
			16 2	-9 4	39 09 409'	
			16 2	-9 4	41 46 484'	
			17 8	-11 0	43 28 544'	
T.P.			1 98	4 77		

Profile Notes Red JSH Plotted JCN Job No. 0075.24 Division No. 10 F. B. 2287 Pg. 75
No. Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. Notes Chkd. JCN Checked JSH Survey by English Notes Ed Date 7-9-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

76298 S & E #307—7-55

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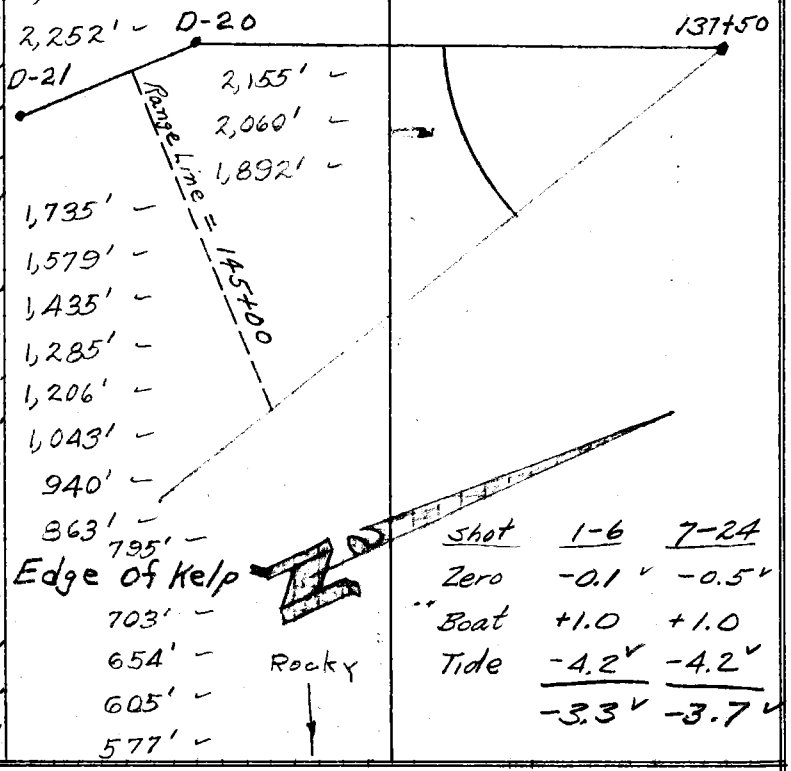
700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
D-20	137+50	1	xxx		9:27	67° 24'	2,861' Cut in Line 145+00
		2	51.4	48.1		66° 46'	2,710'
		3	49.3	46.0		65° 52'	2,527'
		4	46.7	43.4		64° 21'	2,252'
		5	44.3	41.0		63° 46'	2,155'
		6	42.9	39.6		63° 06'	2,060'
		7	41.5	37.8		61° 51'	1,892'
		8	40.3	36.6		60° 27'	1,735'
		9	39.5	35.8		58° 55'	1,579'
		10	38.3	34.6		57° 13'	1,435'
		11	36.7	33.0		55° 13'	1,285'
		12	35.1	31.4		54° 01'	1,206'
		13	31.7	28.0		51° 13'	1,043'
		14	28.4	24.7		49° 08'	940'
		15	25.7	22.0		47° 24'	863'
		16	23.2	19.5		45° 38'	795' Edge of Kelp
		17	19.2	15.5		42° 59'	703'
		18	17.0	13.3		41° 24'	654'
		19	15.2	11.5		39° 56'	605'
		20	14.0	10.3		38° 52'	577'



Shot	1-6	7-24
Zero	-0.1	-0.5
Boat	+1.0	+1.0
Tide	-4.2	-4.2
	-3.3	-3.7

Profile No. ____ Notes Red. JSH Date 10-57 Plotted JCN Date 10-57 Job No. 0075.29 Division No. 10 Survey of Small Craft Harbor F. B. 2287 Pg. 77

X-Sec. No. ____ Notes Chkd. JCN Date 10-57 Checked JSH Date 10-57 Survey by Van Deren Notes R.T. Date 7-9-57 Map No. ____ Reduced Johnson Date ____

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Rocky Remarks	
		21	13.0	9.3		37° 40'	542' Cut in Line	145+00
		22	12.7	9.0		35° 50'	493'	
		23	12.2	8.5		33° 35'	440'	
		24	11.0	7.3	9:33	31° 59'	404'	
		25						
		26						
		27						
		28					shots	7-24
		29					zero	-0.5
		30					Boat	+1.0
137+50	D-20						Tide	-4.2
								-3.7

F. B. 2287 Pg. 78 Job No. 0025.29 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. JCN Checked JSH X-Sec.
Indexed C. Johnson Date 7-9-57 Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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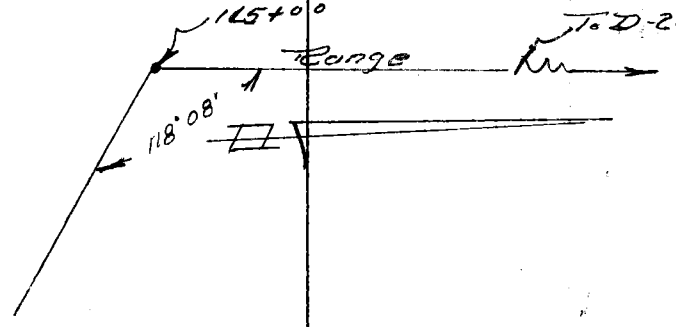
STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
145+00	D-20	1		9:27	118°08'	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
		8			"	
		9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	Edge of Kelp
		17			"	
		18			"	
		19			"	
		20			"	



Profile Notes Red. JSH Plotted JCN Job No. 0075.24 Division No. 10 F. B. 2287 Pg. 79
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JSH Survey by Van Deren Notes Wilks Date 7-9-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

76298 S & E #307—7-55

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NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
125+00	D-20	21			118° 08'		
		22			"		
		23			"		
		24		9:33	"		

F. B. 2287 Pg. 80 Job No. 0075.24 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes D. Wilks Notes Chkd. JCN Checked JSH X-Sec.
Indexed C. Johnson Date 7-9-57 Date 10-57 No.

76L298 S & E #307 9-54

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst at 145+00	Sight on 147+50
T.P.	2 14	6 91		4 77		Inshore
147+50		+	3 0	9 9	Brk.	147+50
14 'R		+	4 2	11 1	Bot	
13 'L			1 0	5 9		
		6 9	5 3	1 6	13° 06'	75
			5 8	1 1	18 07	112
			6 9	0 [illegible]	22 [illegible]	150
			8 0	-1 1	25 36	182
			10 [illegible]	-3 3	30 08	239
			13 6	-4 7	33 34	292
			13 [illegible]	-6 [illegible]	36 32	348
			15 3	-8 4	38 19	388
			16 [illegible]	-9 [illegible]	39 05	407
T.P.	9 40	15 24	1 07	5 84		
148+25			5 06	10 18	D-21, el.= 10.176	, F.B. 2243-~~22~~ 45

Profile Notes Red VCN Plotted JSH Job No. 0075.24 Division No. 10 F. B. 2207 Pg. 81
No. Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. Notes Chkd. JSH Checked VCN Survey by English Notes Ed Date 7-9-57
No. Date 10-57 Date 10-57 Map No. Date Date

76298 S & E #307—7-55

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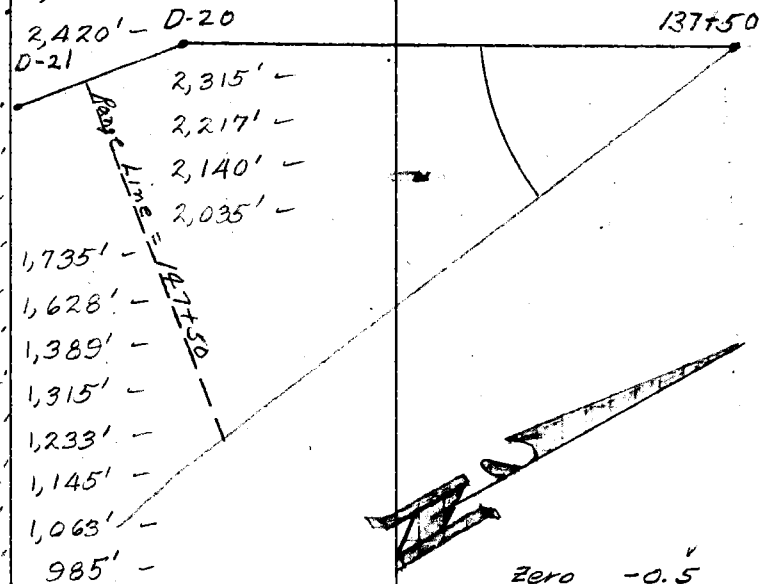
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
137+50	D-20	1	xxx		9:46	63° 48'	2,788' Cut in Line 147+50
		2	xxx			63° 01'	2,635'
		3	52.1	48.4		61° 46'	2,420' D-20 137+50
		4	50.2	46.5		61° 06'	D-21 2,315'
		5	48.4	44.7		60° 24'	2,217'
		6	47.2	43.5		59° 50'	2,140'
		7	46.5	42.8		59° 01'	2,035'
		8	42.5	38.8		56° 16'	1,735'
		9	41.5	37.8		55° 09'	1,628'
		10	38.7	35.0		52° 12'	1,389'
		11	38.1	34.4		51° 05'	1,315'
		12	36.9	33.2		49° 51'	1,233'
		13	35.2	31.5		48° 24'	1,145'
		14	32.8	29.1		46° 52'	1,063'
		15	31.2	27.5		45° 26'	985'
		16	29.6	25.9		44° 00'	918'
		17	27.9	24.2		42° 32'	850' Rocky
		18	26.2	22.5		41° 00'	790'
		19	24.1	20.4		39° 16'	720'
		20	22.3	18.6		37° 41'	665'



Range Line = 147+50

Zero -0.5
Boat +1.0
Tide -4.2
-3.7

Profile Notes Red. JCN Plotted JSH Job No. 0025.29 Division No. 10 F. B. 2287 Pg. 83
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JCN Survey by Van Deren Notes R.T. Date 7-9-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

76298 S & E #307—7-55

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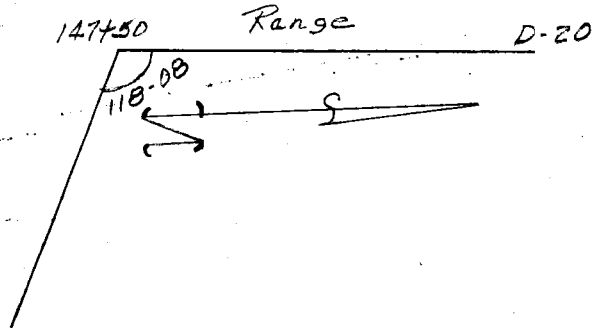
STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Remarks	
		21	19.7	16.0		35° 55'	605' ✓	Cut in Line 147+50
		22	17.2	13.5		33° 55'	540' ✓	
		23	15.3	11.6		32° 56'	513' ✓	Rocky
		24	14.2	10.5		30° 18'	435' ✓	
		25	13.0	9.3		28° 53'	397' ✓	Zero -0.5 ✓
		26	11.7	8.0	9:59	26° 58'	347' ✓	Boat +1.0
		27						Tide -4.2 ✓
		28						-3.7 ✓
		29						
		30						
4 137+50	0-20							

F. B. 2287 Pg. 84 Job No. 0075.29 Division No. 10 Notes Red. JCN Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No. X-Sec.
Survey by Van Deren Notes R.T. Notes Chkd. JSH Checked JCN
Indexed C. Johnson Date 7-9-57 Date 10-57 Date 10-57 No.

Profile No.	Notes Red. JCN	Plotted JSH	Job No. 0075.24	Division No. 10	F. B. 2287	Pg. 85
	Date 10-57	Date 10-57	Survey of Small Craft Harbor			
X-Sec. No.	Notes Chkd. JSH	Checked JCN	Survey by VanDeren Notes Wilks		Date 7-9-57	
	Date 10-57	Date 10-57	Map No.	Indexed Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	# Rec. Adj. Depth		Time	Hor. Ang.	
147+50 D-20	1		9 46	118 08	
	2			"	
	3			"	
	4			"	
	5			"	
	6			"	
	7			"	
	8			"	
	9			"	
	10			"	
	11			"	
	12			"	
	13			"	
	14			"	
	15			"	
	16			"	
	17			"	
	18			"	
	19			"	
	20			"	

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76298 S & E #307—7-55

F. B. 2287 Pg. 86 | Job No. 0075.20 | Division No. | Notes Red. JCN | Plotted JSH | Profile

Survey of Small Craft Harbor | Date 10-57 | Date 10-57 | No.

Survey by Van Deren Notes Wilks | Notes Chkd. JSH | Checked JCN | X-Sec.

Indexed K. C. Johnson Date 7-9-57 | Date 10-57 | Date 10-57 | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.	
14740 D-20	21			118°08'	
	22			"	
	23			"	
	24			"	
	25			"	
	26		9 59	"	

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76298 S & E #307—7-55

Notes Ck'd by KRK	Survey of Small Craft Harb
Map No.	JN 0075.24 Tape Std °F
Office Work JCM	Surveyed by MA Van Deren
Checked KRK	Notes Van Date 7-10-57
Date 10-57	Indexed C. Johnson

F. B. 2287 PG. 87

Tide Gauge Readings at Santa Monica

All Readings are on Daylight saving time

7-10-57

Scale on. 2.7

Gauge Time			Predicted Tide
7:00 A.M		+ 2.2	1.8
7:30 "		+ 2.9	2.3
8:00 "		+ 3.3	2.8
8:30 "		+ 3.7	3.3
9:00 "		+ 4.0	3.6
9:30 "		+ 4.2	3.8
10:00 "		+ 4.2	3.9
10:30 "		+ 4.0	3.9
11:00 "		+ 3.9	3.7
11:30 "		+ 3.6	3.5
12:00 "		+ 3.5	3.3
12:30 P.M.	Watch Time	+ 3.1	
1:00 "		+ 2.9	
1:30 "		+ 2.7	
2:00 "	2:31	+ 2.3	
2:30 "		+ 2.2	

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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76F309S S&E #247 1-56

76F309S S&E #247 1-56

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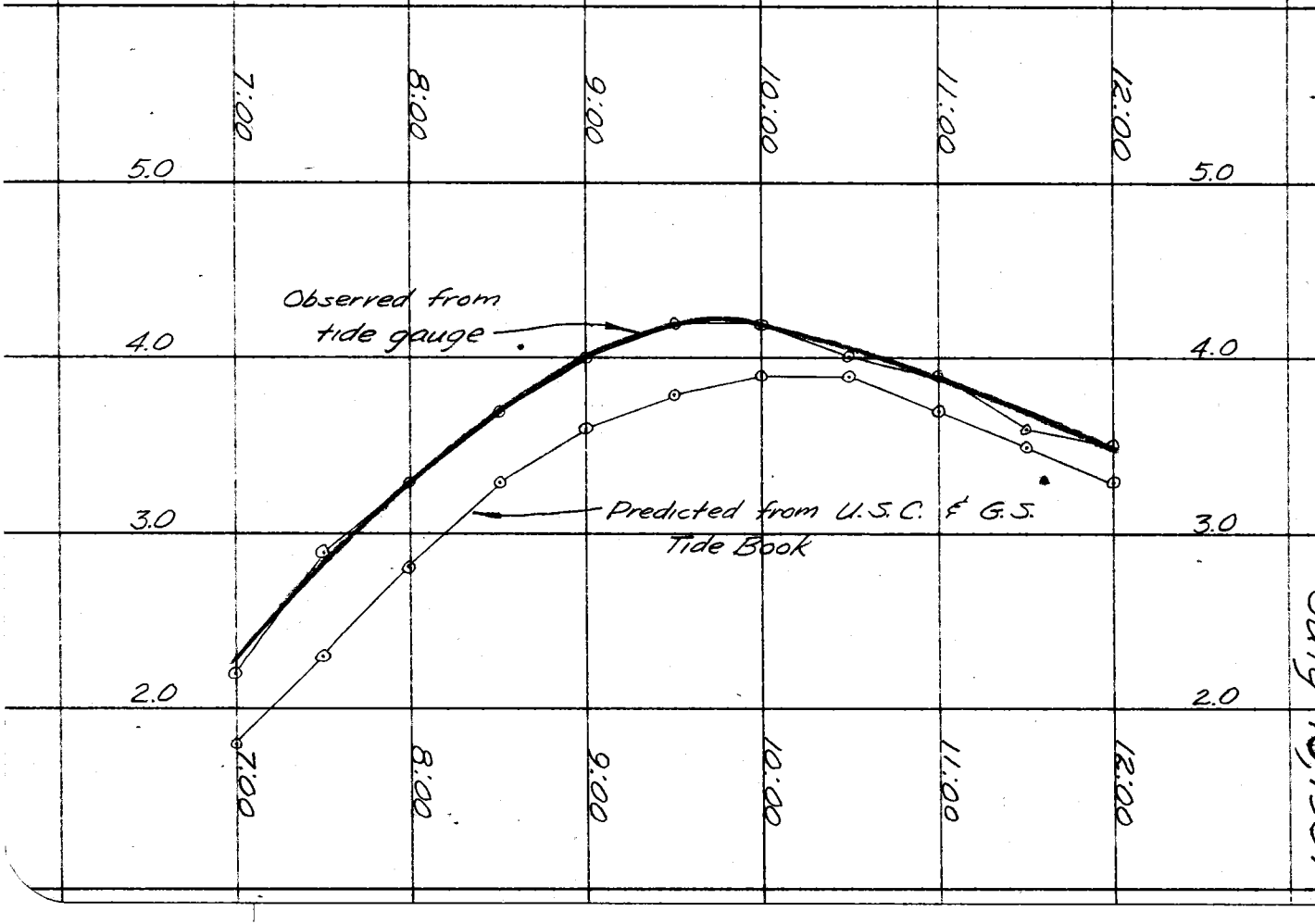

Notes Ck'd by JCN
Map No.
Office Work JCN
Checked KRK
Date 10-57

Survey of Small Craft Harbor
JN Tape Std. °F
Surveyed by
Notes Date
Indexed

F. B. 2287 PG. 88

July 10, 1957

76L298 S & E #307 9-54

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at D-21	Sight on D-22
149+98.03	(−) 7 23	6 87		14 10	D-22, el=14.096, F.B. 2243-31 45	Inshore 149+98.03 (D-22)
		5 9				
			5 2	1 7	3° 47' 31	Bot. Cliff
			9 0	−2 1	12 10 157	
			9 7	−2 8	14 08 213	
			12 2	−5 3	16 13 298	
			15 0	−8 1	17 27 369	
			16 2	−9 3	18 24 439	

Profile
Notes Red. JSH Plotted JCN Job No. 2075.24 Division No. 10 F. B. 2287 Pg. 87
No. Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. Notes Chkd. JCN Checked JSH Survey by English Notes Ed. Date 7-10-57
No. Date 10-57 Date 10-57 Map No. Date

76298 S & E #307—7-55

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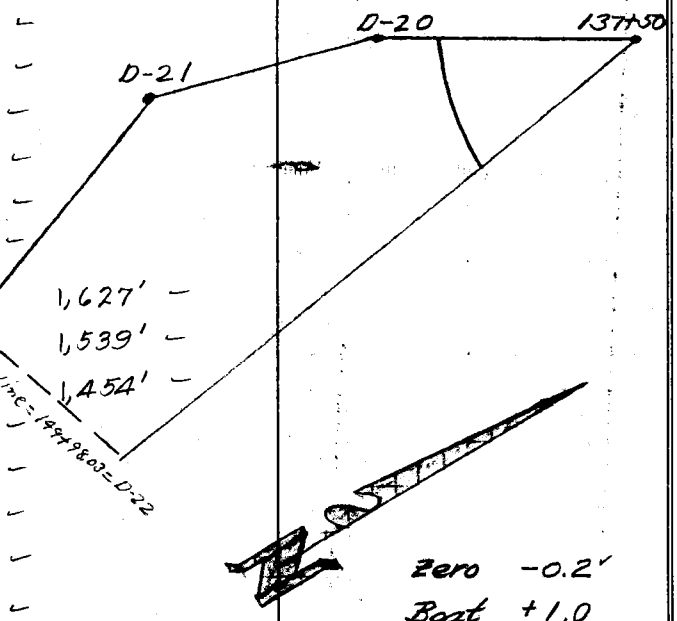
Profile Notes Red. JSH Plotted JCN Job No. 007529 Division No. 10 F. B. 2287 Pg. 91
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor Date 2-10-57
X-Sec. Notes Chkd. JCN Checked JSH Survey by Van Deren Notes R.T. Date
No. Date 10-57 Date 10-57 Map No. Checked Johnson Date

STATION Inst. At	Sight On	#	S. S. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
		1	xxx		7:29	61° 04'	2,505'	Cut in Line 149+98.03 D-22
		2	xxx			59° 54'	2,305'	
		3	50.5	48.4		59° 08'	2,215'	
		4	48.1	46.0		58° 05'	2,073'	
		5	46.4	44.3		57° 13'	1,960'	
		6	44.9	42.8		56° 10'	1,840'	
		7	43.8	41.7		55° 24'	1,750'	
		8	43.0	40.9		54° 50'	1,699'	
137+50	D-20	9	42.2	40.1		54° 07'		
		10	41.7	39.6		53° 12'	1,627'	
		11	40.9	38.8		52° 15'	1,539'	
		12	40.0	37.9		51° 18'	1,454'	
		13	38.9	36.8		50° 20'	1,380'	
		14	37.9	35.8		49° 23'	1,301'	
		15	36.5	34.2		47° 50'	1,239'	
		16	35.3	33.2		46° 31'	1,133'	
		17	33.8	31.7		44° 59'	1,051'	
		18	32.4	30.3		43° 48'	965'	
		19	30.9	28.8		42° 52'	901'	
		20	30.1	28.0		41° 55'	852'	
							805'	



Zero -0.2
Boat +1.0
Tide -2.9
-2.1

76298 S & E #307—7-55

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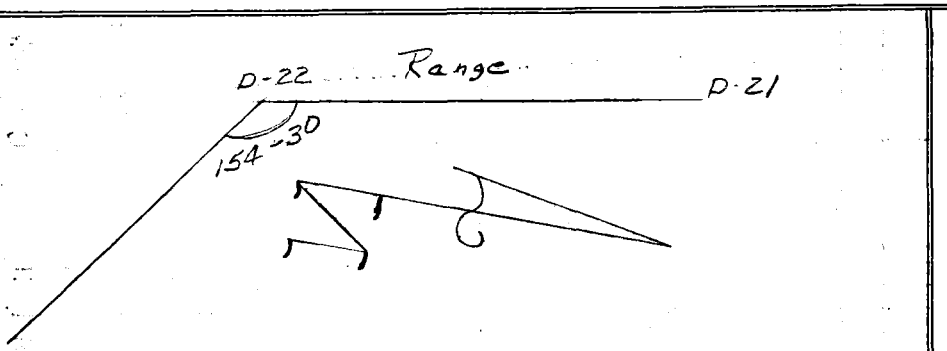
STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Remarks	
		21	29.1	27.0		41° 05'	769	Cut in Line 149+98.03 = 0-22
		22	28.1	26.0		40° 20'	731	
		23	27.3	25.2		39° 37'	699	
		24	26.1	24.0		38° 40'	660	
		25	24.4	22.3		37° 35'	616	
		26	23.3	21.2		36° 40'	578	
		27	22.1	20.0		35° 35'	538	
137+50	0-20	28	20.8	18.7		34° 40'	502'	
		29	19.2	17.1		33° 52'	475	Rock at 467' at 7.4'
		30	15.5	13.4		32° 02'	412	Zero -0.2
		31	14.1	12.0		31° 02'	380	Boat +1.0
		32	13.5	11.4		29° 47'	341	Tide -2.9'
		33	10.3	8.2	7:36	29° 12'	320	Rocky -2.1

F. B. 2287 Pg. 92 Job No. 0075.24 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. JCN Checked JSH X-Sec.
Indexed C. Johnson Date 7-10-57 Date 10-57 Date 10-57 No.

Profile No.	Notes Red. JSH	Plotted JCN	Job No. 007524	Division No. 10	F. B. 2287 Pg. 93
	Date 10-57	Date 10-57	Survey of Small Craft Harbor		
X-Sec. No.	Notes Chkd. JCN	Checked JSH	Survey by VanDeren Notes Wilks	Date 7-10-57	
	Date 10-57	Date 10-57	Map No. Indexed Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On D-22 D-21	# Rec. Adj. Depth		Time	Hor. Ang.	
	1		7 29	154° 30'	
	2			"	
	3			"	
	4			"	
	5			"	
	6			"	
	7			"	
	8			"	
	9			"	
	10			"	
	11			"	
	12			"	
	13			"	
	14			"	
	15			"	
	16			"	
	17			"	
	18			"	
	19			"	
	20			"	

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F. B. 2287 Pg. 44 Job No. 6075.24 Division No. Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes D. Wilks Notes Chkd. JCN Checked JSH X-Sec.
Indexed R. C. Johnson Date 7-10-57 Date 10-57 No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	# Rec	Depth Adj.	Time	Hor. Ang.		Remarks
D-22 / D-21	21			154° 30		
	22			"		
	23			"		
	24			"		
	25			"		
	26			"		
	27			"		
	28			"		
	29			"		
	30			"		
	31			"		
	32			"		
1497+98.03	33		7 36	"		

76L298 S & E #307 9-54

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STATION	S. S.	H. I.	F. S.	ELEV.	Inst. at D-22	Sight on D-23
152+34.69	1 32	15 58		14 26	D-23, el= 14.264,	Inshore
T.P.	2 94	9 42	9 11	6 48	F.B. 2243-32 -45	152+34.69
			8 7	0 8	4° 45' Bot. Cliff	34' (D-23)
		9 5	13 8	-4 3	13 11	121'
			14 2	-4 7	14 06	134'
			21 0	-11 5	17 50	195'

Profile Notes Red JCN Plotted JSH Job No. 0075.24 Division No. 10 F. B. 2287 Pg. 95
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd JSH Checked JCN Survey by English Notes Ed. Date 7-10-57
No. Date 10-57 Date 10-57 Map No. ~~Indexed~~ Johnson Date

76298 S & E #307—7-55

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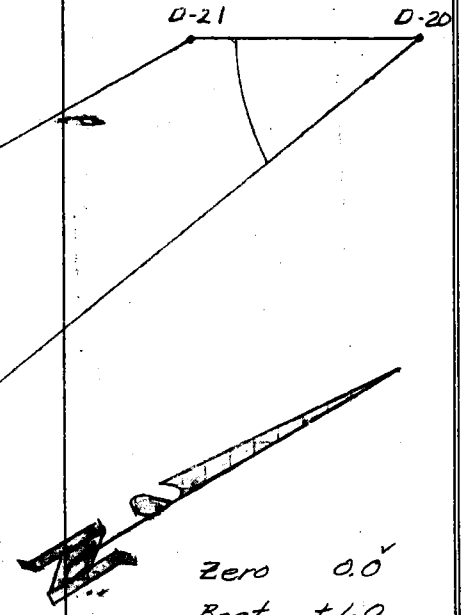
STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		1	xxx		7:51	47° 26'	2,439 Cut in Line 152+34.69 = D-23
		2	xxx			47° 02'	2,346
		3	xxx			45° 40'	2,100
		4	51.3	49.1		45° 00'	1,980
		5	49.6	47.4		44° 15'	1,856
		6	48.0	45.8		43° 34'	1,763
		7	45.6	43.4		42° 54'	1,658
D-20	D-21	8	44.1	41.9		41° 43'	1,521 D-23
		9	43.4	41.2		40° 40'	1,391
		10	41.7	39.5		39° 16'	1,252
		11	40.1	37.9		38° 02'	1,150
		12	38.6	36.4		36° 54'	1,053
		13	36.8	34.6		35° 25'	948
		14	35.2	33.0		34° 09'	860
		15	33.4	31.2		32° 50'	790
		16	31.7	29.5		31° 32'	714
		17	30.0	27.8		30° 31'	657
		18	28.7	26.5		29° 36'	613
		19	27.4	25.2		28° 40'	575
		20	25.9	23.7		27° 38'	528

Range Line = 152+34.69 = D-23



Zero 0.0
Boat +1.0
Tide -3.2
-2.2

Profile Notes Red. JCN Plotted JSH Job No. 0075.24 Division No. 10 F. B. 2287 Pg. 97
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JCN Survey by Van Deren Notes R.T. Date 7-10-57
No. Date 10-57 Date 10-57 Map No. Indexed Date

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STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Remarks	
		21	24.3	22.1		26° 33'	480 Cut in Line 152+34.69=0-23	
		22	22.9	20.7		25° 37'	442	
		23	21.6	19.4		24° 52'	415	
		24	20.4	18.2		23° 53'	368	
		25	19.2	17.0		23° 00'	345	
		26	17.8	15.6		21° 54'	305	
		27	16.0	13.8		20° 53'	274	
		28	14.0	11.8		19° 46'	240 Rocky	Zero 0.0
		29	13.2	11.0	7:57	19° 04'	215	Boat +1.0
		30						Tide -3.2
								-2.2

F. B. 2287 Pg. 96 Job No. 0075.28 Division No. 10 Notes Red. JCN Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. JSH Checked JCN X-Sec.
Indexed K. C. Johnson Date 7-10-57 Date 10-57 Date 10-57 No.

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On D-22	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
15234.69	1		7 51	100°22		
	2			"		
	3			"		
	4			"		
	5			"		
	6			"		
	7			"		
	8			"		
	9			"		
	10			"		
	11			"		
	12			"		
	13			"		
	14			"		
	15			"		
	16			"		
	17			"		
	18			"		
	19			"		
	20			"		

Profile Notes Red JCN Plotted JSH Job No. 0075-74 Division No. 10 F. B. 2287 Pg. 99
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd JSH Checked JCN Survey by VanDerzee Notes Wilks Date 7-10-57
No. Date 10-57 Date 10-57 Map No. Reviewed Johnson Date

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On D-22	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
151+98.03	21			140° 24'		
	22			"		
	23			"		
	24			"		
	25			"		
	26			"		
	27			"		
	28			"		
	29		7 57	"		

F. B. 2287 Pg. 100 Job No. 0075.24 Division No. 10 Notes Red. JCN Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes Wilks Notes Chkd. JSH Checked JCN X-Sec.
Indexed C. Johnson Date 7-10-57 Date 10-57 Date 10-57 No.

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at D-23	Sight on D-24
154+96.58				24 ~~3~~ 4	D-24, el = 24.373	Inshore
T.P.	2.94	9 42		6 48	F.B. 2243-33 ≥ 45	154+96.58
						(D-24)
		9 4				
202			4	-2 0	[illegible]	
			14 6	-5 2	3 57 98'	40 12
			15 1	-6 1	5 26 111'	38 43
			1 2.5	-9	6 56 126'	37 13
			2 61	89		

Profile Notes Red JSH Plotted JCN Job No. 0075.24 Division No. 10 F. B. 2287 Pg. 101
No. Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. Notes Chkd JCN Checked JSH Survey by English Notes Ed. Date 7-10-57
No. Date 10-57 Date 10-57 Map No. 1 Indexed Johnson Date

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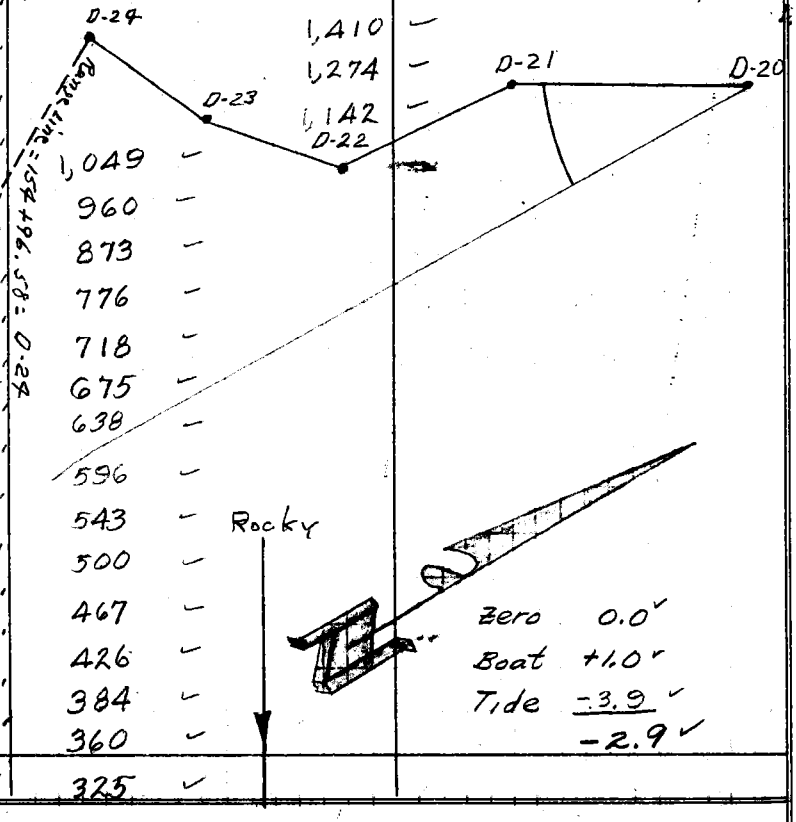
STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
D-20	D-21	1	51.1	48.2	8:45	39° 37'	1,662 Cut in Line 154+96.58=D-24
		2	49.6	46.7		38° 35'	1,538
		3	47.4	44.5		37° 25'	1,410
		4	45.7	42.8		36° 00'	1,274
		5	44.2	41.3		34° 30'	1,142
		6	42.8	39.9		33° 20'	1,049
		7	41.3	38.4		32° 10'	960
		8	39.2	36.3		30° 50'	873
		9	37.6	34.7		29° 18'	776
		10	36.4	33.5		28° 22'	718
		11	35.3	32.4		27° 34'	675
		12	33.8	30.9		26° 53'	638
		13	32.3	29.4		26° 04'	596
		14	28.7	25.8		24° 59'	543
		15	25.8	22.9		24° 09'	500
		16	25.2	22.3		23° 20'	467
		17	22.0	19.1		22° 28'	426
		18	x 19.6	16.7		21° 27'	384
		19	x 19.4	16.5		20° 53'	360
		20	x 17.9	15.0		19° 57'	325



Zero 0.0
Boat +1.0
Tide -3.9
-2.9

Profile Notes Red. JSH Plotted JCN Job No. 0075:24 Division No. 10 F. B. 2287 Pg. 103
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JSH Survey by Van Deren Notes RT Date 7-10-57
No. Date 10-57 Date Map No. Date

23 22.3 20.8 20.3 24.3 23.7

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STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Rocky	Remarks
		21	17.5	14.6		19° 14'	295	Cut in Line 154+96.58 = D-24
		22	18.7	15.8	8:49	18° 30'	270	
D-20	D-21							

Zero 0.0
Boat +1.0
Tide -3.9
-2.9

Without reef corrected

17	17.4
18	17.9
19	19.6
20	20.3
21	20.8
22	21.4

F. B. 2287 Pg. 104 Job No. 0025.24 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. JCN Checked JSH X-Sec.
Indexed C. Johnson Date 7-10-57 Date 10-57 Date 10-57 No.

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
D-24	D-23	1		845	125 51		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
		8			"		
		9			"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		

Profile No. ____ Notes Red. JSH Date 10-57 Plotted JCN Date 10-57 Job No. 0075.24 Division No. 10 Survey of Small Craft Harbor Survey by Van Dorn Notes Wilks Date 7-10-57 F. B. 2287 Pg. 105

X-Sec. No. ____ Notes Chkd. JCN Date 10-57 Checked JSH Date 10-57 Map No. ____ Date ____

F. B. 2287 Pg. 106 Job No. 007524 Division No. 10 Notes Red. JSH Plotted JCN Profile

Survey of Small Craft Harbor Date 10-57 Date 10-57 No.

Survey by VanDaren Notes D. Wilks Notes Chkd. JCN Checked JSH X-Sec.

Indexed L. C. Johnson Date 7-10-57 Date 10-57 Date 10-57 No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	# Rec.	Depth Adj.	Time	Hor. Ang.	
D-24 D-23	21			125° 51'	
	22		8 49	"	

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Notes Ck'd by	Survey of
Map No.	W. O. Tape No. St'd. °F
Office Work	Surveyed by
Checked	Notes Date
Date	Indexed K. C. Johnson 7-16-57

F. B. Pg.

Profile Soundings in Arroyo Seguit Canyon

Area

7-10-57

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76F309S S&E #247. 8-54

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst at 422+50 (M.L.L.W.)	Sight on 420+00
Z-26	5 88	24 24		18 36	Z-26, el=18.355, F.B. 2100-134	Inshore 420+00
T.P.	0 55	8 74	16 05	8 19		
420+00		+	0 3	9 0		
20' R.		+	3 5	12 2	Brk.	
50' R.		+	5 0	13 7	B.B.	
		8 7	5 3	3 4	9° 53' 44'	
			6 9	+1 8	17 21 78'	
			9 2	-0 5	27 44 132'	
			10 1	-1 4	36 00 182'	
			12 5	-3 8	44 43 248'	
			14 6	-5 9	49 54 297'	
			16 7	-8 0	55 31 364'	

ARROYO SEQUIT COVE

Profile
Notes Red JCN Plotted JCN Job No. 0075.24 Division No. 10 F.B. 2287 Pg. 107
No. Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. Notes Chkd JSH Checked JSH Survey by Emlish Notes Ed. Date 7-10-57
No. Date 10-57 Date 10-57 Map No. [illegible] Date 7-16-57

76298 S & E #307—7-55

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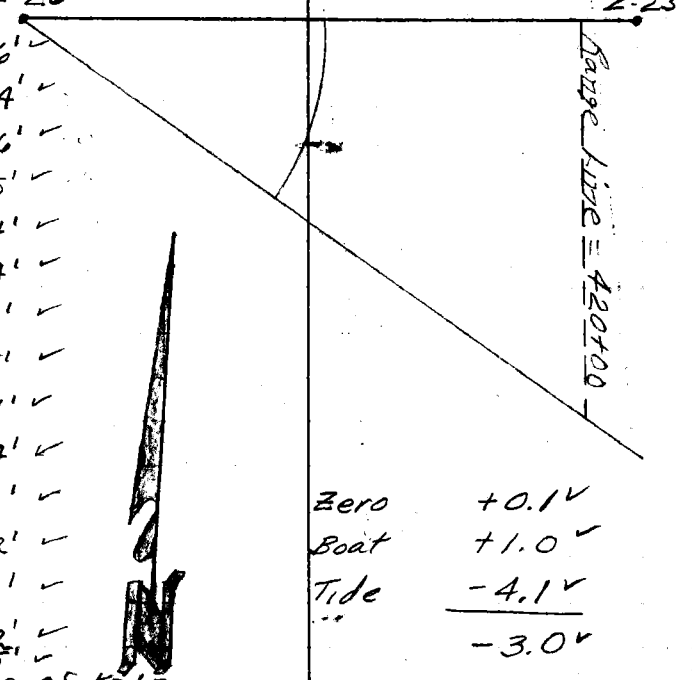
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
Z-26	Z-25	1	—	—	10:08	68° 47'	2,631' Cut in Line 420+00
		2	50.2	47.2		67° 26'	2,458'
		3	47.0	44.0		65° 39'	2,258' Z-26
		4	44.2	41.2		64° 20'	2,126'
		5	42.9	39.9		63° 40'	2,064'
		6	42.0	39.0		62° 47'	1,986'
		7	40.8	37.8		61° 41'	1,895'
		8	39.0	36.0		60° 29'	1,804'
		9	38.0	35.0		59° 21'	1,724'
		10	36.2	33.2		57° 20'	1,593'
		11	34.7	31.7		56° 01'	1,515'
		12	33.2	30.2		54° 13'	1,417'
		13	31.8	28.8		52° 58'	1,354'
		14	30.2	27.2		51° 12'	1,271'
		15	28.8	25.8		49° 37'	1,202'
		16	27.1	24.1		47° 12'	1,103'
		17	25.4	22.4		45° 00'	1,022'
		18	24.2	21.2		43° 22'	965' Edge of Kelp
		19	23.3	20.3		42° 01'	920'
		20	22.2	19.2		40° 51'	883' Rocky



Zero	+0.1
Boat	+1.0
Tide	-4.1
	-3.0

Profile Notes Red. JSH Plotted JCN Job No. 0075.24 Division No. 10 F. B. 2287 Pg. 109
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JSH Survey by Van Deren Notes A.T. Date 7-10-57
No. Date 10-57 Date 10-57 Map No. [illegible] Date

76298 S & E #307—7-55

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Do not extend notes this side of this line.

F. B. 2287 Pg. 110 Job No. 002124 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes RT Notes Chkd. JCN Checked JSH X-Sec.
Indexed K. C. Johnson Date 7-10-57 Date 10-57 No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.		Remarks
	21	20.8 / 17.8		39° 07'	831'	Rocky Cut in Line 420+00
	22	20.5 / 17.5		37° 34'	786'	
	23	19.7 / 16.7		37° 30'	770'	
	24	19.0 / 16.0		35° 16'	750'	
	25	18.7 / 15.7		35° 24'	726'	
	26	18.8 / 15.8		34° 13'	695'	
	27	18.0 / 15.0		33° 28'	675'	
	28	16.4 / 13.4		32° 40'	655'	
Z-26 / Z-25	29	16.3 / 13.3		30° 04'	591'	Rocky
	30	14.3 / 11.3		27° 43'	537'	
	31	12.7 / 9.7		25° 40'	491'	
	32	10.9 / 7.9		23° 37'	447'	
	33	13.0 / 10.0		21° 51'	410'	
	34	10.9 / 7.9	10:16	20° 21'	379'	

Zero +0.1
Boat +1.0
Tide -4.1
-3.0

76298 S & E #307—7-55

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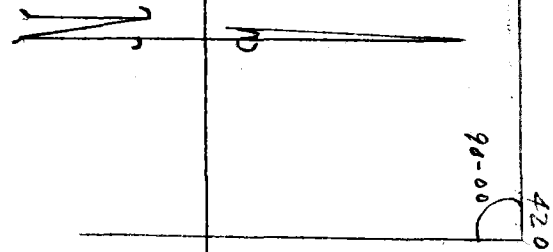
STATION Inst. At	Sight On	S. S. #	H. I. Rec.	Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
420+00	Z-26	1			10 08	90 00	
		2				"	
		3				"	
		4				"	
		5				"	
		6				"	
		7				"	
		8				"	
		9				"	
		10				"	
		11				"	
		12				"	
		13				"	
		14				"	
		15				"	
		16				"	
		17				"	
		18				"	Edge of Kelp
		19				"	
		20				"	

Z-26 Range



Profile Notes Red. VSH Plotted VCN Job No. 0075.00 Division No. 10 F. B. 2287 Pg. 111
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. VCN Checked VSH Survey by Ken Deren Notes Willis Date 7-10-57
No. Date 10-57 Date 10-57 Map No. Noted Johnson Date

76298 S & E #307—7-55

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
420+00	2-26	21			90 00		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30			"		
		31			"		
		32			"		
		33			"		
		34		10 16	"		

F. B. 2287 Pg. 112 Job No. 0025.24 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Ing Deren Notes Wilks Notes Chkd. JCN Checked JSH X-Sec.
Indexed R. Johnson Date 7-10-57 Date 10-57 Date 10-57 No.

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 420+00	Sight on 422+50
T.P.	0 55	8 74		8 19		Inshore
422+50			0 3	8 4		422 +50
30 ' R.		+	5 0	13 7	Brk.	
46 ' R.		+	6 0	14 7	B.B.	
		8 7				
			3 8	4 9	5° 37' 25'	
			6 2	2 5	11 40 52'	
			7 9	+0 8	21 15 97'	
			9 4	-0 7	28 30 136'	
			11 3	-2 6	36 12 183'	
			13 6	-4 9	42 50 232'	
			14 7	-6 0	49 19 291'	
			17 5	-8 8	54 14 347'	

Profile Notes Red JCN Plotted JSH Job No. 0075.24 Division No. 10 F.B. 2287 Pg. 113
No. Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. Notes Chkd. JSH Checked JCN Survey by English Notes Ed. Date 7-10-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

76298 S & E #307—7-55

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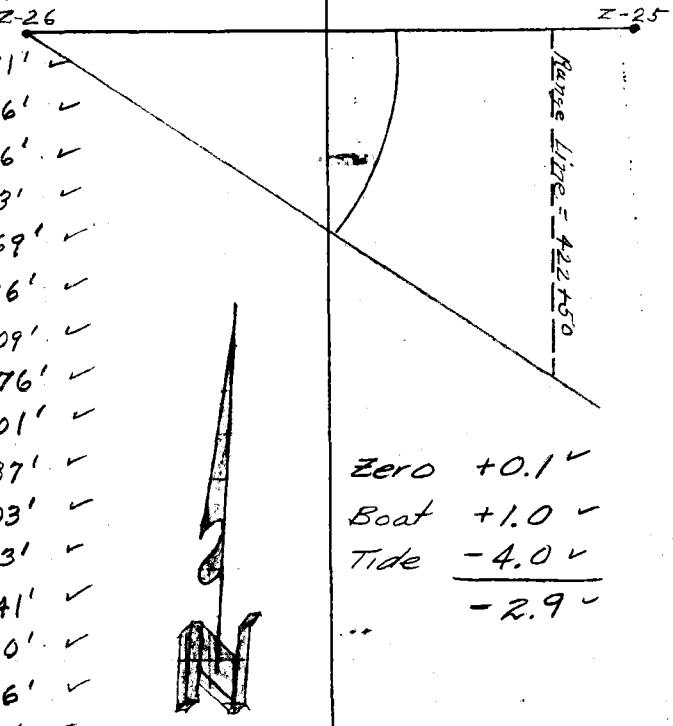
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
Z-26	Z-25	1	51.0	48.1	10:29	72° 53'	2,505' Cut in Line 422+50
		2	49.1	46.2		72° 07'	2,391'
		3	47.7	44.8		71° 28'	2,301'
		4	45.6	42.7		70° 36'	2,191'
		5	44.1	41.2		69° 53'	2,106'
		6	42.8	39.9		68° 58'	2,006'
		7	41.5	38.6		68° 02'	1,913'
		8	39.2	36.3		67° 34'	1,869'
		9	38.0	35.1		65° 32'	1,696'
		10	36.9	34.0		64° 23'	1,609'
		11	35.3	32.4		63° 55'	1,576'
		12	33.8	30.9		61° 10'	1,401'
		13	31.7	28.8		59° 04'	1,287'
		14	30.3	27.4		57° 19'	1,203'
		15	28.3	25.4		55° 16'	1,113'
		16	26.7	23.8		53° 27'	1,041'
		17	25.6	22.7		51° 12'	960'
		18	24.2	21.3		49° 17'	896'
		19	22.9	20.0		47° 09'	832'
		20	21.6	18.7		45° 20'	781'



Zero +0.1
Boat +1.0
Tide -4.0
-2.9

Profile Notes Red. JCN Plotted JSH Job No. 0025.24 Division No. 10 F. B. 2287 Pg. 115
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JCN Survey by Van Deren Notes R.T. Date 7-10-57
No. Date 10-57 Date 10-57 Map No. [illegible] Date

76298 S & E #307—7-55

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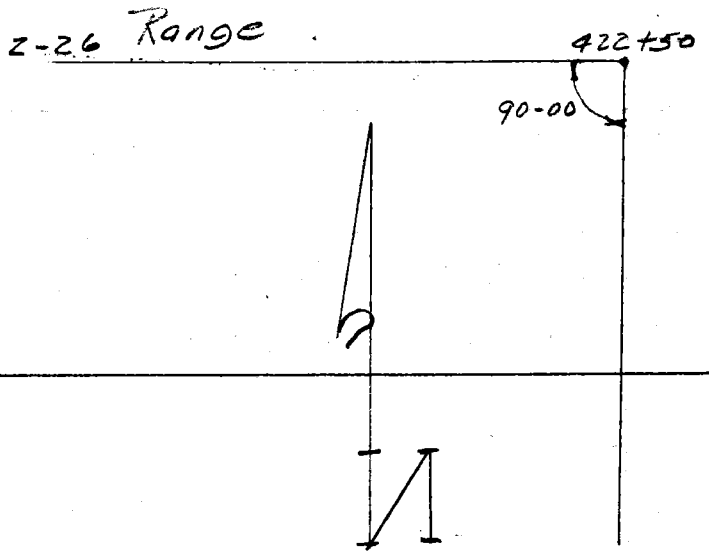
F. B. 2287 Pg. 116 | Job No. 20624 Division No. 10 Notes Red. JCN Plotted JSH
Survey of Small Craft Harbor Date 10-57 Date 10-57 No. Profile
Survey by Van Deren Notes RT Notes Chkd. JSH Checked JCN
Indexed K. C. Johnson Date 7-10-57 Date 10-57 No. X-Sec.

STATION		B. S.	H. I.		F. S.	ELEV.			
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks	
		21	20.7	17.8		43° 20'	728'	Rocky Cut in Lime	4+22+50
		22	19.4	16.5		41° 36'	685'		
		23	18.4	15.5		40° 02'	648'		
		24	17.3	14.4		38° 40'	617'		
		25	14.7	11.8		35° 37'	552'		
		26	14.0	11.1		33° 48'	516'		
		27	13.4	10.5		31° 48'	466'		
Z-26	Z-25	28	12.8	9.9		29° 44'	441'		
		29	12.1	9.2		27° 06'	395'	Zero	+0.1
		30	11.0	8.1		25° 10'	363'	Boat	+1.0
		31	10.2	7.3		22° 17'	316'	Tide	-4.0
		32	9.4	6.5		19° 38'	275'		
		33	7.7	4.8	10:35	17° 32'	244'		-2.9

Profile	Notes Red. JCN	Plotted JSH	Job No. 0075.24	Division No. 10	F. B. 2287	Pg. 117
No.	Date 10-57	Date 10-57	Survey of Small Craft Harbor			
X-Sec.	Notes Chkd. JSH	Checked JCN	Survey by Van Deren	Notes Wilks	Date 7-10-57	
No.	Date 10-57	Date 10-57	Map No.	Index Johnson	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.	
422+50 Z-26	1		10:29	90 00	
	2			"	
	3			"	
	4			"	
	5			"	
	6			"	
	7			"	
	8			"	
	9			"	
	10			"	
	11			"	
	12			"	
	13			"	
	14			"	
	15			"	
	16			"	
	17			"	
	18			"	
	19			"	
	20			"	

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
422+50	Z-26	21			90'		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30			"		
		31			"		
		32			"		
		33		10:35	"		

F. B. 2287 Pg. 118 Job No. 2-24 Division No. 10 Notes Red. JCN Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes W. Iks Notes Chkd. JSH Checked JCN X-Sec.
Indexed C. Johnson Date 7-10-57 Date 10-57 Date 10-57 No.

76L298 307 10-51

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726 LOS ANGELES COUNTY
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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 422+50	Sight on 425+00
T.P.	0 81	9 00		8 19		Inshore
425+00		+	3 7	12 7	Br	425+00
48 'R		+	6 2	15 2	B.B.	
			2 1	6 9	6° 38' 29'	
			7 0	2 0	17 25 79'	
			8 3	0 7	25 55 122'	
			9 8	-0 8	32 05 157'	
			10 8	-1 8	36 15 183'	
			13 0	-4 0	41 03 218'	
			13 5	-4 5	45 28 254'	
			15 7	-6 7	48 59 288'	
			16 4	-7 4	52 57 331'	
T.P.	16 38	25 09	0 29	8 71		
Z-26			6 69	18 40	Z-26, el = 18.355,	F.B. 2100-134

Profile No. ____ Notes Red JSH Plotted JCN Job No. 007524 Division No. 10 F.B. 2287 Pg. 119
Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. No. ____ Notes Chkd JCN Checked JSH Survey by English Notes Ed. Date 7-10-57
Date 10-57 Date 10-57 Map No. ____ Date ____

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Profile No. ____ Date ____ X-Sec. No. ____ Date ____

Notes Red. JSH Date 10-57 Notes Chkd. JCN Date 10-57

Plotted JCN Date 10-57 Checked JSH Date 10-57

Job No. 007128 Division No. 10 Survey of Small Craft Harbor Survey by Van Doren Noted R.T. Date 7-10-57 Map No. ____ Indexed Johnson Date ____

F. B. 2287 Pg. 121

STATION Inst. At	Sight On	S. S. #	H. I. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		1	48.8	45.9	10:47	77° 09'	2271' Cut in Line 425+00
		2	46.3	43.4		76° 17'	2137'
		3	44.5	41.6		75° 30'	D-26 2017' D-25
		4	42.5	39.6		75° 08'	1965'
		5	40.7	37.8		74° 31'	1883'
		6	39.0	36.1		73° 29'	1749'
		7	36.9	34.0		71° 53'	1594'
Z-26	Z-25	8	35.1	32.2		70° 35'	1480'
		9	33.7	30.8		69° 26'	1390'
		10	32.2	29.3		68° 02'	1293'
		11	30.5	27.6		66° 21'	1191'
		12	29.5	26.6		65° 27'	1142'
		13	28.5	25.6		63° 55'	1066'
		14	27.2	24.3		62° 43'	1011'
		15	26.2	23.3		61° 28'	959'
		16	24.9	22.0		60° 08'	908'
		17	23.7	20.8		58° 26'	849'
		18	22.8	19.9		56° 36'	791'
		19	21.4	18.5		54° 48'	740'
		20	20.4	17.5		53° 55'	716'

Range Line = 425+00

Rocky

N

Zero 0.0
Boat +1.0
Tide -3.9
-2.9

76298 S & E #307—7-55

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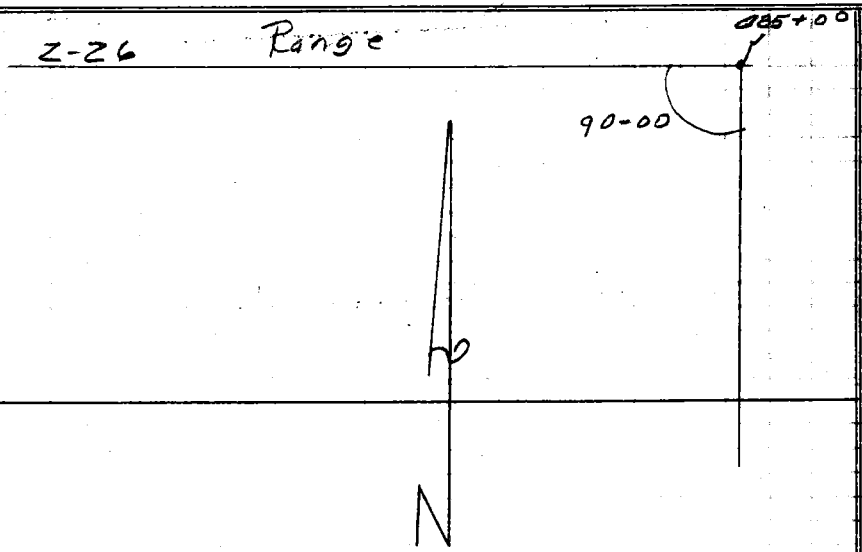
STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		21	19.3	16.4		51° 04'	646' Cut Rocky in Line	425+00
		22	18.3	15.4		49° 44'	616'	
		23	16.3	13.4		47° 30'	569'	
		24	14.8	11.9		46° 10'	543'	
		25	13.8	10.9		43° 28'	494' Rocky	
		26	12.7	9.8		40° 26'	444'	
		27	11.0	8.1		37° 37'	402'	
		28	10.2	7.3		34° 10'	354' Rocky	
2-26	2-25	29	9.1	6.2		31° 45'	323'	Zero 0.0
		30	8.3	5.4	10:52	28° 35'	284'	Boat +1.0
		31						Tide -3.9
		32						-2.9
		33						
		34						
		35						

F. B. 2287 Pg. 122 Job No. 0025.29 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes RT Notes Chkd. JCN Checked JSH X-Sec.
Indexed C. Johnson Date 7-10-57 Date 10-57 Date 10-57 No.

Profile No.	Notes Red. JSH	Plotted JCN	Job No. 0075.74	Division No. 10	F. B. 2287 Pg. 123
	Date 10-57	Date 10-57	Survey of Small Craft Harbor		
X-Sec. No.	Notes Chkd. JCN	Checked JSH	Survey by Van Deren	Notes Wilks	Date 7-10-57
	Date 10-57	Date 10-57	Map No. [illegible]		Date



STATION	B. B. #	H. I. Depth Rec. Adj.	F. B. Time	ELEV. Hor. Ang.	Remarks
Inst. Sight At On 425+00 Z-26	1		10:07	90'00	
	2			"	
	3			"	
	4			"	
	5			"	
	6			"	
	7			"	
	8			"	
	9			"	
	10			"	
	11			"	
	12			"	
	13			"	
	14			"	
	15			"	
	16			"	
	17			"	
	18			"	
	19			"	
	20			"	

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F. B. 2287 Pg. 124 Job No. 0215.4 Division No. 10 Notes Red. JSH Plotted VCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No. X-Sec.
Survey by Ken Jones Notes W. Wilks Notes Chkd. VCN Checked JSH
Indexed R. P. Johnson Date 7-10-57 Date 10-57 Date 10-57 No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
225+00	Z-2C	21			90		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30		10:52	"		

Notes Ck'd by KRK	Survey of Small Craft Harb
Map No.	JN 0075.24 Tape Std °F
Office Work KRK	Surveyed by M.A. Van Deren
Checked JCN	Notes Van Date 7-11-57
Date 10-57	Indexed J. C. Johnson 7-16-57

F. B. 2287 PG. 125

Tide Gauge Readings at Santa Monica

All Readings are on Daylight Savingtime

7-11-57

Scale on 2.7

Gauge Time			Predicted Tide
7:00 A.M		+ 1.6	1.3
7:30 "		+ 2.1	1.6
8:00 "		+ 2.7	2.2
8:30 "		+ 3.3	2.8
9:00 "		+ 3.8	3.3
9:30 "		+ 4.0	3.7
10:00 "		+ 4.1	3.9
10:30 "		+ 4.2	4.0
11:00 "		+ 4.2	4.0
11:30 "		+ 3.6	3.8
12:00 "		+ 3.8	3.6
12:30 "		+ 3.7	
1:00 "		+ 3.2	
1:30 "		+ 2.7	
2:00 "		+ 2.6	
2:30 "		+ 2.5	
3:00 "	2:59	+ 2.4	

Watch Time

Note: Any Additions or Changes on this Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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76F3095 SBE 1247 1-56

76F309S S&E #247 1-56

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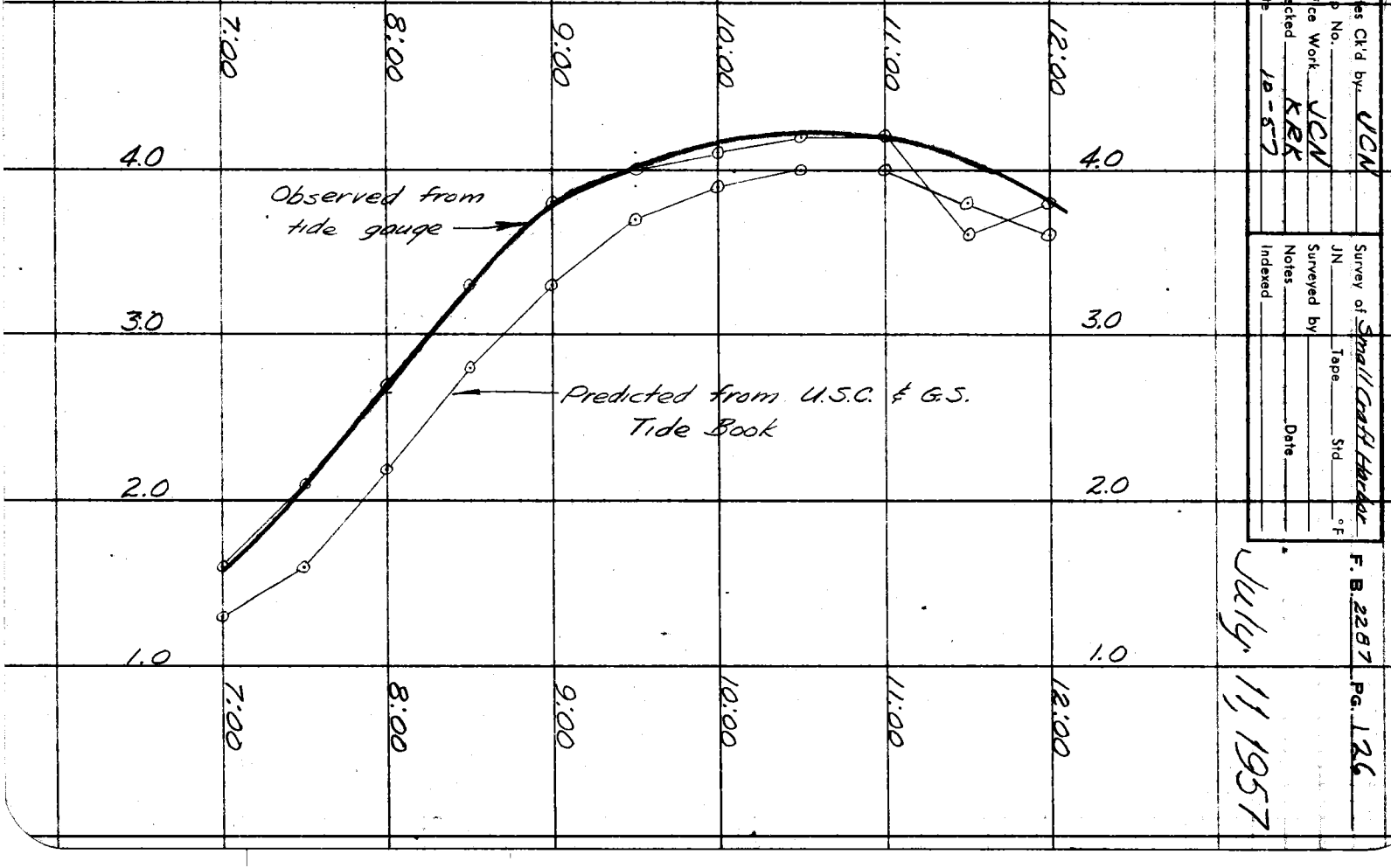

Notes Ck'd by: VCN
Map No.
Office Work: VCN
Checked: KRK
Date: 10-8-57

Survey of: Small Craft Harbor
JN Tape Std °F
Surveyed by
Notes Date
Indexed

July 11, 1957

F. B. 2287 PG. 126

76L298 307 10-51

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726 LOS ANGELES COUNTY
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NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 425+00	Sight on 427+50
Z-26	2 11	20 47		18 36	Z-26, el=18.355 F.B. 2100-134	Insboro 427+50
T.P.	1 29	8 30	13 46	7 01		
427+50		+	5 0	13 3		
23' R.		+	7 0	15 3	B.B.	
5' L		+	3 4	11 7	Brk.	
45' L		+	4 5	12 8	"	
45' L		+	3 3	11 6	"	
		8 3	1 5	6 8	15° 49' 71'	
			7 0	1 3	28 01 133'	
			9 6	-1 3	37 53 195'	
			11 6	-3 3	43 07 234'	
			12 2	-3 9	48 28 282'	
			12 5	-4 2	51 54 319'	
			15 4	-7 1	55 31 364'	
			15 5	-7 2	57 56 399'	
			15 5	-7 2	61 27 460'	

Profile No. ____ Notes Red JCN Plotted JSH Job No. 0075.24 Division No. 10 F.B. 2287 Pg. 127
Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. No. ____ Notes Chkd JSH Checked JCN Survey by English Notes EG Date 7-11-57
Date 10-57 Date 10-57 Map No. ____ Date ____

76298 S & E #307—7-55

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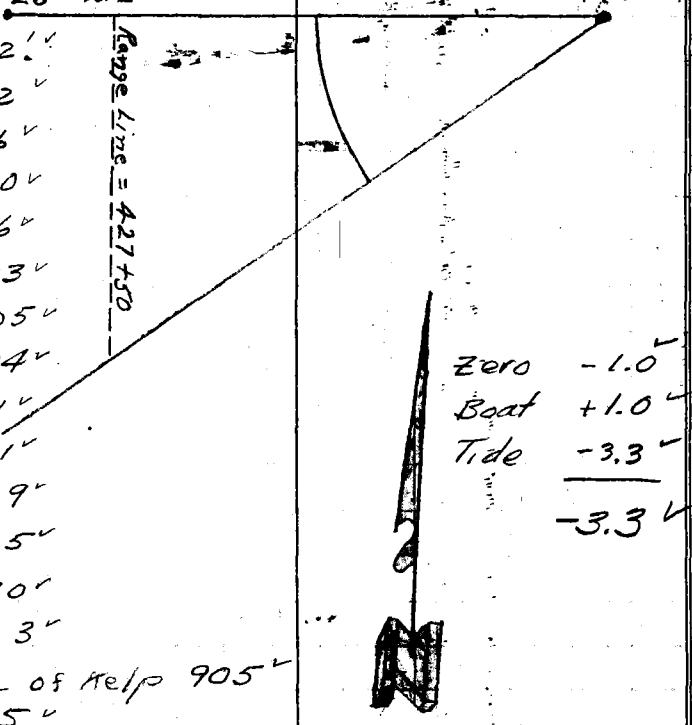
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
420+00	Z-26	1	50.9	47.6	8:27	72° 24'	2364' Cut in Line 427+50
		2	49.0	45.7		71° 36'	2255'
		3	46.8	43.5		70° 33'	
		4	45.0	41.7		69° 37'	2022'
		5	43.9	40.6		68° 03'	1942
		6	42.5	39.2		68° 00'	1856
		7	40.9	37.6		66° 55'	1760
		8	39.5	36.2		65° 53'	1676
		9	38.2	34.9		64° 39'	1583
		10	36.7	33.4		63° 30'	1505
		11	35.3	32.0		62° 14'	1424
		12	34.0	30.7		60° 35'	1331
		13	32.6	29.3		59° 03'	1251
		14	31.1	27.8		57° 18'	1169
		15	29.5	26.2		55° 50'	1105
		16	27.8	24.5		53° 56'	1030
		17	26.2	22.9		52° 05'	963
		18	25.2	21.9		50° 20'	Edge of Kelp 905
		19	23.1	19.8		48° 45'	855
		20	21.5	18.2		47° 02'	806



Zero -1.0
Boat +1.0
Tide -3.3
-3.3

Profile Notes Red. JCN Plotted JSH Job No. 0075.24 Division No. 10 F. B. 2287 Pg. 129
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JCN Survey by Van Deren Notes R.T. Date 7-11-57
No. Date 10-57 Date 10-57 Map No. Date

76298 S & E #307—7-55

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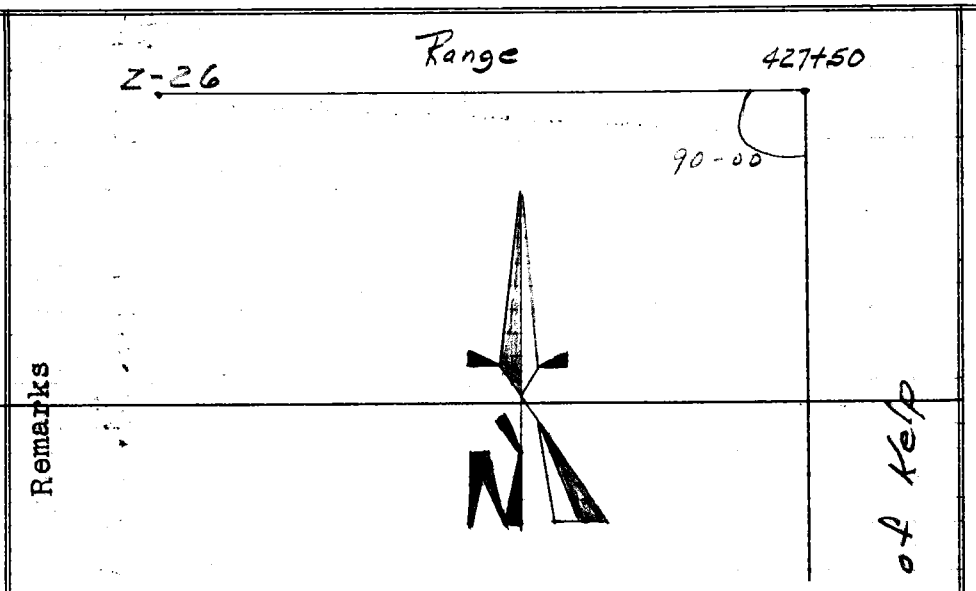
F. B. 2287 Pg. 130 | Job No. 02524 Division No. 10 Notes Red. JCN Plotted JSH
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Doren Notes R.T. Notes Chkd. JSH Checked JCN X-Sec.
Indexed K. P. Johnson Date 7-11-57 Date 10-57 No.

Profile

STATION	S. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Depth Rec. / Adj.	Time	Hor. Ang.	Remarks	
	21	20.7 / 17.4		45° 36'	766' Cut in Line 427+50	
	22	20.0 / 16.7		44° 30'	733'	
	23	18.7 / 15.4		43° 01'	700'	
	24	17.1 / 13.8		41° 08'	655'	
	25	16.2 / 12.9		39° 25'	617'	
	26	15.2 / 11.9		37° 27'	575'	
	27	—		34° 56'	536'	
420+00	28	—		32° 52'	485'	
Z-26	29	—		30° 49'	448'	
	30	—	8:33	27° 17'	387'	Zero -1.0
	31					Boat +1.0
	32					Tide -3.3
	33					
	34					-3.3
	35					

Profile No.	Notes Red. JCN	Plotted JSH	Job No. 0075.24	Division No. 10	F. B. 2287 Pg. 131
	Date 10-57	Date 10-57	Survey of Small Craft Harbor		
X-Sec. No.	Notes Chkd. JSH	Checked JCN	Survey by Van Deren	Notes Wilks	Date 7-11-57
	Date 10-57	Date 10-57	Map No. ~~X~~ Indexed G. Johnson		Date



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.	
427+50 Z-26	1		8 27	90 00	
	2			"	
	3			"	
	4			"	
	5			"	
	6			"	
	7			"	
	8			"	
	9			"	
	10			"	
	11			"	
	12			"	
	13			"	
	14			"	
	15			"	
	16			"	
	17			"	
	18			"	
	19			"	
	20			"	

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76298 S & E #307—7-55

76298 S & E #307—7-55

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
427+50	Z-26	21			90 00		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30		8 33	"		

F. B. 2287 Pg. 132 Job No. 0075.24 Division No. 10 Notes Red JCN Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes Wilks Notes Chkd JSH Checked JCN X-Sec.
Indexed C. Johnson Date 7-11-57 Date 10-57 Date 10-57 No.

76L298 307 10-51

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ENGINEERING BLDG.

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 427+50	Sight on 430+00
T.P.	1 29	8 30		7 01		Inshore
430+00		+	10 9	19 2	T.B.	430+00
17 'L		+	5 5	13 8	B.B.	
53 'L		+	5 0	13 3	Brk.	
59 'L		+	4 3	12 6	"	
105 'L		+	5 2	13 5	"	
			0 0	8 3	27° 18' 129'	
			4 7	3 6	33 35 166'	
			7 0	1 3	39 54 209'	
			8 7	-0 4	47 58 277'	
			10 4	-2 1	52 37 327'	
			12 4	-4 1	56 26 377'	
			14 5	-6 2	60 36 444'	
			15 6	-~~8 3~~ 7 3	63 06 493'	
			17 3	-9 0	66 52 585'	
T.P.			0 09	8 21		

Profile
No. X-Sec.
Notes Red JSH Plotted JCN Job No. 0075.24 Division No. 10 F.B. 2287 Pg. 133
Date 10-57 Date 10-57 Survey of Small Craft Harbors
Notes Chkd JCN Checked JSH Survey by English Notes Ed Date 7-11-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

76298 S & E #307—7-55

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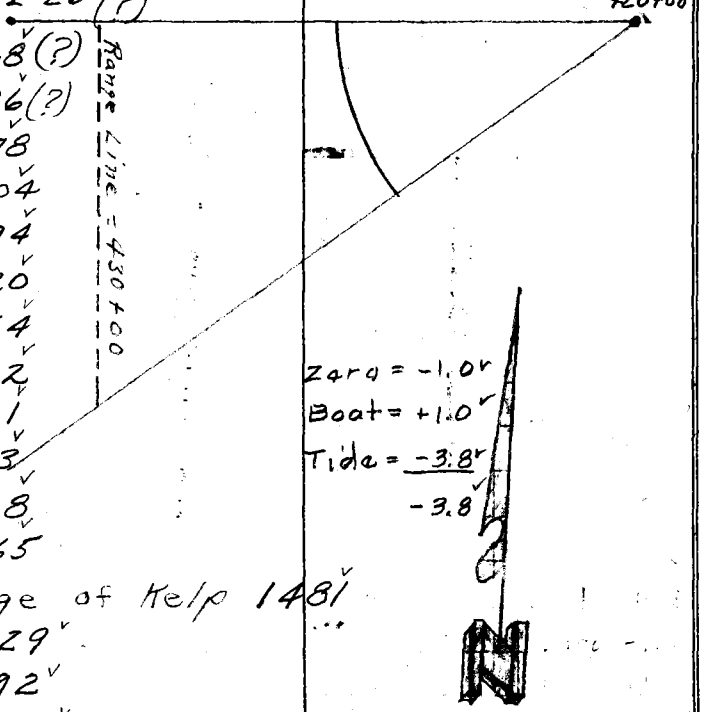
STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
420+00	Z-26	1	—		8:45	66° 50'	2337 Cut in Line 430+00
		2	—			[illegible]	2154 (?)
		3	—			[illegible]	1951 Z-26 (?)
		4	—			[illegible]	2248 (?)
		5	—			[illegible]	2186 (?)
		6	—			[illegible]	2078
		7	—			[illegible]	2004
		8	—			[illegible]	1894
		9	—			[illegible]	1820
		10	—			[illegible]	1764
		11	—			[illegible]	1712
		12	—			[illegible]	1661
		13	—		8:48	[illegible]	1603
		14	39.8	36.0	9:01	58° 26'	1628
		15	39.3	35.5		57° 25'	1565
		16	38.9	35.1		55° 58'	Edge of Kelp 1481
		17	38.2	34.4		55° 01'	1429
		18	37.0	33.2		54° 18'	1392
		19	36.1	32.3		53° 25'	1347
		20	35.3	31.5		52° 38'	1310



Zero = -1.0
Boat = +1.0
Tide = -3.8
-3.8

Profile Notes Red USH Plotted JCN Job No. 0075.24 Division No. 10 F. B. 2287 Pg. 135
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked USH Survey by Van Deren Notes R.T. Date 2-11-57
No. Date 10-57 Date 10-57 Map No. [illegible] Date

76298 S & E #307—7-55

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F. B. 2287 Pg. 136 Job No. 0025524 Division No. 10 Notes Red. JSH Plotted JCN
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Oren Notes R.T. Notes Chkd. JCN Checked JSH
Indexed C. Johnson Date 7-11-57 Date 10-57 No.
Profile X-Sec.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	# Rec.	Depth Adj.	Time	Hor. Ang.		Remarks
	21	33.9 30.1			1259	Cut in Line 430+00
	22	32.4 28.6			1197	
	23	31.2 27.4			1149	Zero -1.0
	24	29.6 25.8			1119	Boat +1.0
	25	28.2 24.4			1079	Tide -3.8
	26	27.3 23.5			1047	-3.8
	27	26.8 23.0			1023	
420+00	28	25.7 21.9		44 34	997	
N-26	29	23.9 20.1		[illegible] 21	955	
	30	22.5 18.7		[illegible]	936	Rocky
	31	21.4 17.6		41 27	883	
	32	20.5 16.7		37 37	828	
	33	20.5 16.7		35° 45'	803	
	34	19.7 15.9		[illegible]	784	
	35	17.9 14.1		[illegible]	754	
	36	16.0 12.2		[illegible]	721	
	37	14.8 11.0		[illegible]	678	
	38	14.3 10.5		[illegible]	658	Rocky
	39	13.4 9.6		32° 09'	629	
	40	12.4 8.6		30° 45'	595	

Profile No.	Notes Red. JSH	Plotted JCN	Job No. 0075.24	Division No. 10	F. B. 2287 Pg. 137
	Date 10-57	Date 10-57	Survey of Small Craft Harbor		
X-Sec. No.	Notes Chkd. JCN	Checked JSH	Survey by Van Deren	Notes R.T.	Date 7-11-57
	Date 10-57	Date 10-57	Map No.	Indexed [illegible]	Date

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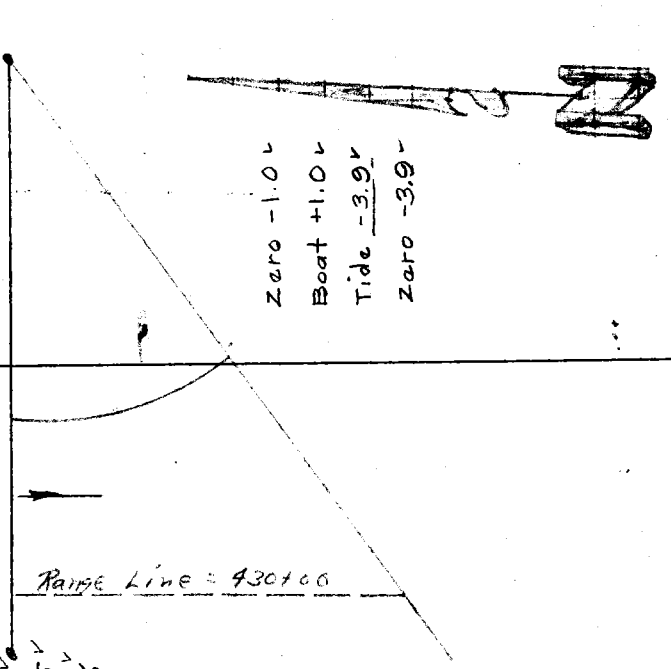
STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	# Rec. Adj. Depth		Time Hor. Ang.		
	41 12.5	8.6		29° 50'	573' Cut in Line 430+00
	42 11.6	7.7		28° 23'	540'
	43 9.8	5.9		26° 28'	498' 2-26
	44 8.3	4.4		29° 00'	445'
	45 6.8	2.9	9:08	22° 07'	406'



2-26

420+00

76298 S & E #307—7-55

F. B. 2287 Pg. 138 Job No. 025524 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Small Craft Harbor Date _____ Date _____ No. _____

Survey by Van Doren Notes R.T. Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date 7-11-57 Date _____ Date _____ No. _____

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.		Remarks

76298 S & E #307—7-55

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76298 S & E #307—7-55

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STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
430+00	Z-26	1			8 45	90 00	
		2				"	
		3				"	
		4				"	
		5				"	
		6				"	
		7				"	
		8				"	
		9				"	
		10				"	
		11				"	
		12				"	
		13			8 48	"	
		14			9 01	"	
		15				"	
		16				"	Edge of Kelp
		17				"	
		18				"	
		19				"	
		20				"	

Z-26 Range

90-00

430+00

Profile Notes Red. JSH Plotted JCN Job No. 0075.24 Division No. 10 F. B. 2287 Pg. 139
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JSH Survey by Van Deren Notes Wilks Date 7-11-57
No. Date 10-57 Date 10-57 Map No. [illegible] Date

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
430+00	Z-26	21			90 00		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30			"		
		31			"		
		32			"		
		33			"		
		34			"		
		35			"		
		36			"		
		37			"		
		38			"		
		39			"		
		40			"		

F. B. 2287 Pg. 170 Job No. 00757 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Kay Deren Notes Wilks Notes Chkd. JCN Checked JSH X-Sec.
Indexed [illegible] Date 7-11-57 Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
430+00	Z-26	41			90 00		
		42			"		
		43			"		
		44			"		
		45		9 08	"		

Profile Notes Red. JSH Plotted JCN Job No. 0075.24 Division No. 10 F. B. 2287 Pg. 141
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JSH Survey by Ian Deren Notes Wilks Date 7-11-57
No. Date 10-57 Date 10-57 Map No. ~~X Interpolation~~ Date

F. B. 2287 Pg. 142 Job No. 0025.24 Division No. 10 Notes Red. Plotted Profile

Survey of Small Craft Harbor Date 7-11-57 Date No.

Survey by Van Deren Notes Wilks Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At On	Depth # Rec. Adj.	Time Hor. Ang.			Remarks

76L298 307 10-51

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ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at Z-26	Sight on 432+50
T.P.	0 01	8 22		8 21		Insbore
432+50						432 +50
21 'R			+ 3 5	11 7	Brk.	
26 'R			+ 4 9	13 1	"	
19 'L			+ 4 8	13 0	"	
20 'L			+ 3 0	11 2	"	
		8 2	3 8	4 4	16° 37' 68'	
			7 8	0 9	27 05 117'	
			9 5	-1 3	36 01 166'	
			10 8	-2 6	43 22 216'	
			10 5	-2 3	49 01 263'	
			11 5	-3 3	54 23 319'	
			13 9	-5 7	58 09 368'	
			15 8	-7 6	63 30 458'	

Profile No. ____ Notes Red JCN Plotted JSH Job No. 0075,24 Division No. 10 F.B. 2287 Pg. 143
X-Sec. No. ____ Date 10-57 Date 10-57 Survey of Small Craft Harbors
Notes Chkd JSH Checked JCN Survey by English Notes Ed. Date 7-11-57
Date 10-57 Date 10-57 Map No. ____ Indexed Johnson Date ____

76298 S & E #307—7-55

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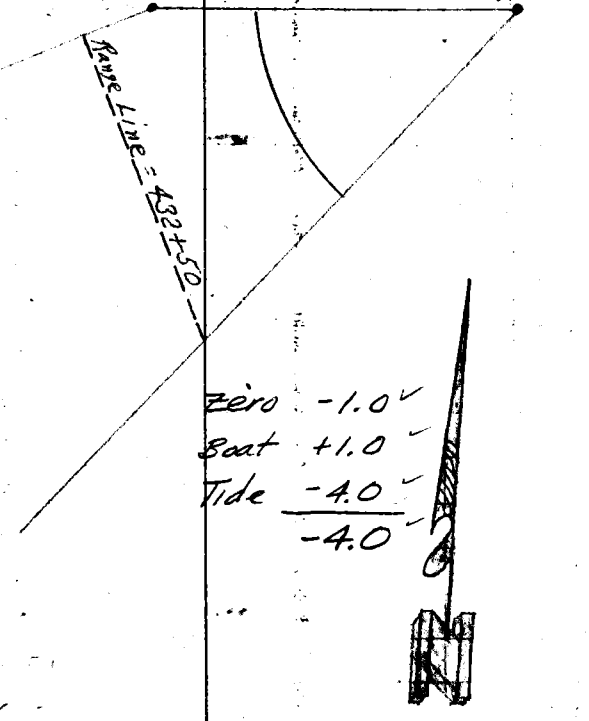
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
420+00	Z-26	1	46.1	42.1	9:19	94° 14'	2534' Cut in Line 432+50
		2	45.5	41.5		93° 30'	2477'
		3	44.2	40.2		92° 37'	2407
		4	43.4	39.4		91° 41'	2340
		5	42.8	38.8		90° 38'	2,271
		6	42.0	38.0		89° 15'	2179
		7	41.2	37.2		88° 12'	2118
		8	40.7	36.7		87° 11'	2062
		9	40.0	36.0		86° 08'	2004
		10	39.2	35.2		85° 05'	1944
		11	38.5	34.5		83° 52'	1890
		12	38.1	34.1		82° 36'	1833
		13	37.3	33.3		81° 30'	1766
		14	36.6	32.6		79° 40'	1708
		15	35.7	31.7		78° 10'	1649
		16	35.0	31.0		76° 37'	1,591
		17	34.4	30.4		74° 56'	1532
		18	33.4	29.4		72° 58'	1467
		19	32.8	28.8		70° 55'	1402
		20	31.9	27.9		69° 05'	1348



Zero -1.0
Boat +1.0
Tide -4.0
-4.0

Profile No. ____ Notes Red. JCN Date 10-57 Plotted JSH Date 10-57 Job No. 0075.29 Division No. 10 Survey of Small Craft Harbor
X-Sec. No. ____ Notes Chkd. JSH Date 10-57 Checked JCN Date 10-57 Survey by Van Deren Notes R.T. Date 7-11-57 Map No. ____ Date ____
F. B. 2287 Pg. 145

76298 S & E #307—7-55

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STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks	
420+00	Z-26	21	31.1	27.1		[illegible]	1283 Cut in Line	432+50
		22	30.3	26.3		[illegible]	1230	
		23	29.5	25.5		[illegible]	1183	
		24	29.3	25.3		[illegible]	1140	
		25	28.7	24.7		[illegible]	1098	
		26	27.7	23.7		[illegible]	1060	
		27	26.8	22.8		[illegible]	1018	
		28	26.1	22.1		[illegible]	978	
		29	25.2	21.2		52° 33'	943	
		30	24.3	20.3		50° 36'	902	
		31	23.3	19.3		48° 18'	Edge of Help	854'
		32	21.7	17.7		46° 20'	813	
		33	21.2	17.2		44° 48'	784	Zero -1.0
		34	20.8	16.8		43° 22'	755	Boat +1.0
		35	18.5	14.5		40° 34'	701 Rocky	Tide -4.0
		[illegible]	16.9	12.9		38° 40'	665	-4.0
		[illegible]	14.7	10.7		36° 34'	625	
		[illegible]	14.0	10.0		34° 54'	593	
		39	13.7	9.7		33° 08'	560	
		40	13.5	9.5		31° 33'	529	

F. B. 2287 Pg. 146 Job No. 0075.28 Division No. 10 Notes Red. JCN Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. JSH Checked JCN X-Sec.
Indexed R. C. Johnson Date 7-11-57 Date 10-57 Date 10-57 No.

Profile No.	Notes Red. JCN	Plotted JSH	Job No. 0075.24	Division No. 10	F. B. 22807 Pg. 197
	Date 10-57	Date 10-57	Survey of Small Craft Harbor		
X-Sec. No.	Notes Chkd. JSH	Checked JCN	Survey by Van Deren	Notes R.T.	Date 7-11-57
	Date 10-57	Date 10-57	Map No.	Indexed C. Johnson	Date

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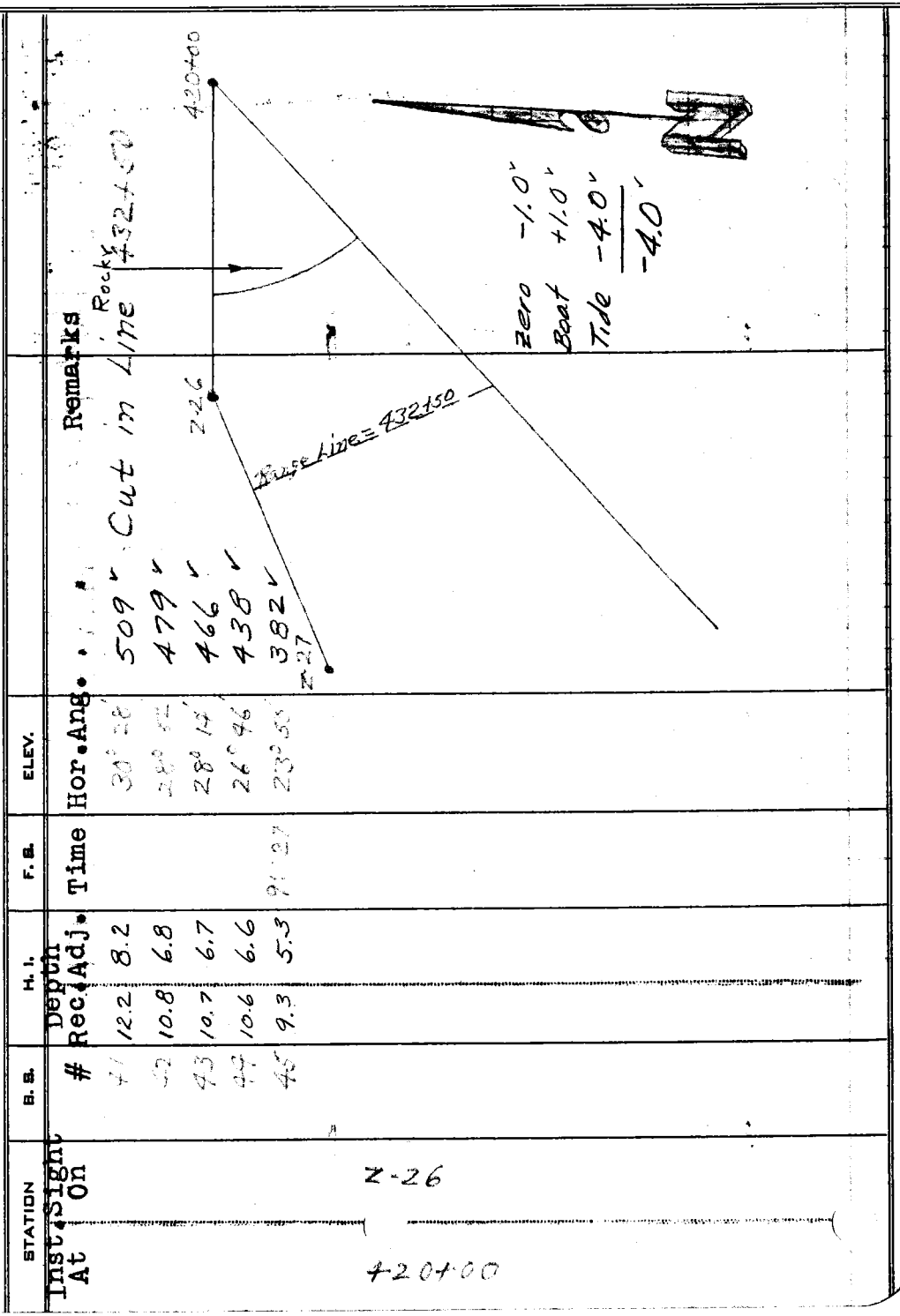
STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. B. Time	ELEV. Hor. Ang.	Remarks
		41	12.2	8.2		30° 28'	509' Cut in Line 432+50
		42	10.8	6.8		28° 52'	479'
		43	10.7	6.7		28° 14'	466'
		44	10.6	6.6		26° 46'	438'
		45	9.3	5.3	91 27	23° 55'	382'



F. B. 2287 Pg. 148 Job No. 0026.24 Division No. 10 Notes Red. Plotted Profile

Survey of Small Craft Harbor Date 7-11-57 Date No.

Survey by Van Deren Notes R.T. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.		Remarks

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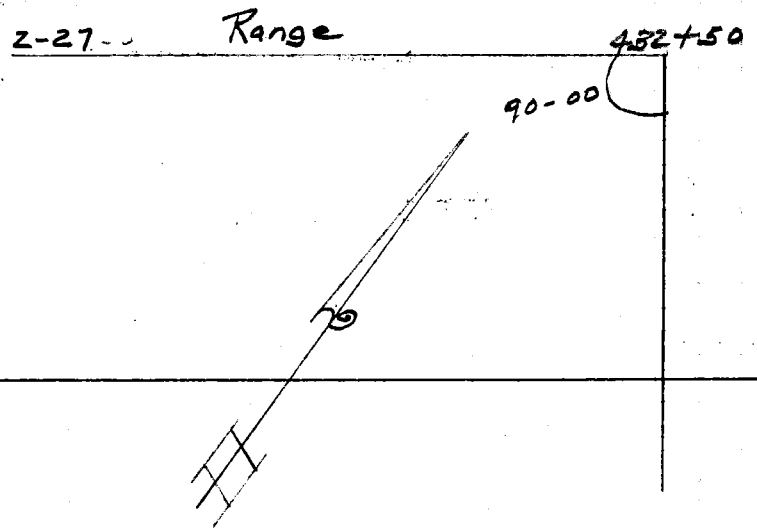
Profile No.	Notes Red. JCN	Plotted JSH	Job No. 2075.24	Division No. 10	F. B. 2287 Pg. 149
	Date 10-57	Date 10-57	Survey of Small Craft Harbor		
X-Sec. No.	Notes Chkd. JSH	Checked JCN	Survey by Van Deren	Notes Wilks	Date 7-11-57
	Date 10-57	Date 10-57	Map No. [illegible]	Date	



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.	
432+50	1		9 19	90 00	
	2			"	
	3			"	
	4			"	
	5			"	
	6			"	
	7			"	
	8			"	
	9			"	
	10			"	
	11			"	
	12			"	
	13			"	
	14			"	
	15			"	
	16			"	
	17			"	
	18			"	
	19			"	
	20			"	

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
432+50		21			90 00		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30			"		
		31			"	Edge of Kelp	
		32			"		
		33			"		
		34			"		
		35			"		
		36			"		
		37			"		
		38			"		
		39			"		
		40			"		

F. B. 2287 Pg. 150 Job No. 007524 Division No. 10 Notes Red. JCN Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes Wilks Notes Chkd. JSH Checked JCN X-Sec.
Indexed [illegible] Johnson Date 7-11-57 Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
482+50	2-27	41			90 00		
		42			"		
		43			"		
		44			"		
		45		9 27	"		

Profile Notes Red. JCN Plotted JSH Job No. 00524 Division No. 10 F. B. 2287 Pg. 151
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JCN Survey by Van Deren Notes Wilks Date 7-11-57
No. Date 10-57 Date 10-57 Map No. Date

F. B. 2287 Pg. 152 Job No. 0075.24 Division No. 16 Notes Red. Plotted Profile

Survey of Small Craft Harbor Date 7-11-57 Date No.

Survey by Van Doren Notes Wilks Notes Chkd. Checked X-Sec.

Indexed Date Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At On	Sight #	depth Rec.	Adj.	Time	Hor. Ang.

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76L298 307 10-51

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ENGINEERING BLDG.

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 432+50	Sight on 435+00
T.P.	001	8 22		8 21		Inshore
435+00			1 5	6 7		435+00
29' R		+	3 0	11 2	Brk.	
15' R		+	2 7	10 9	"	
		8 2				
			5 2	3 0	8° 11' 36'	
			7 4	0 8	22 43 105'	
			10 6	-2 4	38 10 197'	
			12 8	-4 6	49 48 296'	
			15 8	-7 6	55 39 366'	
T.P.			0 80	7 42		

Profile No. ____ Notes Red KRK Plotted KRK Job No. 0075.24 Division No. 10 F.B. 2287 Pg. 153
Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. No. ____ Notes Chkd VJH Checked VJH Survey by English Notes Ed. Date 7-11-57
Date 10-57 Date 10-57 Map No. ____ [redacted] Date ____

76298 S & E #307—7-55

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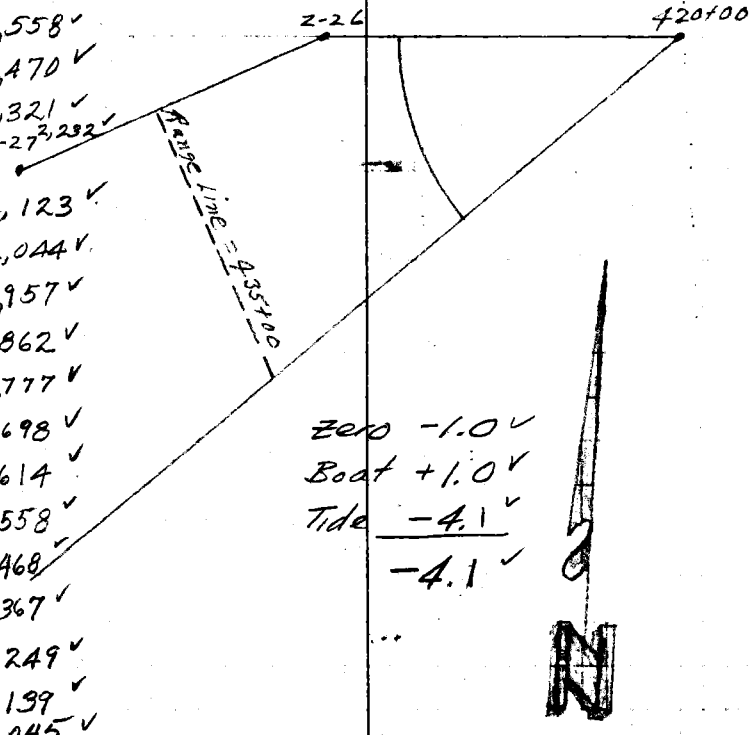
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
420+00	Z-26	1	51.5	47.4	9:36	91° 15'	2,716 Cut in Line 435+00
		2	50.8	46.7		[illegible]	2,654
		3	49.4	45.3		89° 16'	2,558
		4	48.2	44.1		88° 05'	2,470
		5	46.6	42.5		85° 54'	2,321
		6	45.5	41.4		84° 28'	Z-27 2,232
		7	44.0	39.9		82° 33'	2,123
		8	42.9	38.8		81° 06'	2,044
		9	41.9	37.8		79° 20'	1,957
		10	41.0	36.9		77° 22'	1,862
		11	40.0	35.9		75° 28'	1,777
		12	38.9	34.8		73° 30'	1,698
		13	38.1	34.0		71° 22'	1,614
		14	37.6	33.5		69° 51'	1,558
		15	36.7	32.6		67° 19'	1,468
		16	35.3	31.2		64° 17'	1,367
		17	33.7	29.6		60° 26'	1,249
		18	32.0	27.9		56° 34'	1,139
		19	30.4	26.3		53° 08'	1,045
		20	28.8	24.7		50° 18'	971 Edge of Kelp



Zero -1.0
Boat +1.0
Tide -4.1
-4.1

Profile Notes Red. KRK Plotted KRK Job No. 0075.29 Division No. 10 F. S. 2287 Pg. 155
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JCN Survey by Van Deren Notes R.T. Date 7-11-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

76298 S & E #307—7-55

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STATION Inst. At	STATION Sight On	S. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
		21	27.3	23.2		48° 16'	920'	Cut in Line 435+00
		22	25.5	21.4		45° 48'	860'	
		23	23.1	19.0		43° 52'	813'	Rocky
		24	21.4	17.3		41° 34'	756'	
		25	20.3	16.2		40° 30'	732'	
		26	18.7	14.6		39° 32'	709'	
		27	11.7	7.6		38° 56'	694'	
420+00		28	9.5	5.4		37° 46'	666'	
	Z-26	29	8.1	4.0		36° 12'	632'	Zero -1.0
		30	9.0	4.9		34° 44'	596'	Boat +1.0
		31	11.1	7.0		32° 48'	552'	Tide -4.1
		32	14.5	10.4		30° 56'	508'	
		33	15.9	11.8		29° 33'	475'	-4.1
		34	13.2	9.1		27° 10'	420'	
		35	12.2	8.1		25° 45'	386'	
		36	11.2	7.1		24° 16'	351'	
		37	10.5	6.4	9:44	23° 06'	323'	

F. B. 2287 Pg. 156 Job No. 0075.24 Division No. 10 Notes Red. Plotted Date 7-11-57 Date No. Profile
Survey of Small Craft Harbor Notes R.T. Notes Chkd. Checked Date No. X-Sec.
Survey by Van Deren Date
Indexed C. Johnson

76298 S & E #307—7-55

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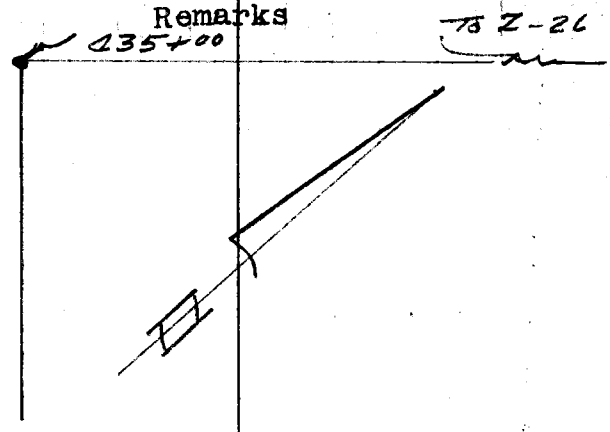
STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
435+00	Z-26	1		9:36	90 00		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
		8			"		
		9			"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



Profile Notes Red. JSH Plotted JCN Job No. 0075.24 Division No. 10 F. B. 2287 Pg. 157
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JSH Survey by Van Deren Notes Wilks Date 7-11-57
No. Date 10-57 Date 10-57 Map No. Date

76298 S & E #307—7-55

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
435+00	Z-26	21			90 00	Edge of Kelp	
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"	5 3 6	
		29			"		
		30			"		
		31			"		
		32			"		
		33			"		
		34			"		
		35			"		
		36			"		
		37		9:44	"		

F. B. 2287 Pg. 15 Job No. 0025.24 Division No. 10 Notes Red. KRK Plotted KRK Profile
Survey of Small Craft Harbor Date 7-11-57 Date 10-57 No.
Survey by Van Deusen Notes Wilks Notes Chkd. JCN Checked JCN X-Sec.
Indexed [illegible] Date Date 10-57 Date 10-57 No.

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 435+00	Sight on 437+12.50
T.P.	0 88	8 30		7 42		Inshore
437+50		+	1 5	9 8		437+12.50
22'L		+	2 0	10 3	Brk.	
50'R			0 2	8 1		
		8 3	4 6	3 7	18° 27' 71'	
			5 3	3 0	26 12 105'	
			6 6	1 7	35 41 153'	
			7 2	1 1	40 30 181'	
			9 1	-0 8	50 51 261'	
			11 0	-2 7	54 19 296'	
			12 8	-4 5	58 39 349'	
			13 7	-5 4	63 08 419'	
			17 3	-9 0	61 19 388'	

Profile No. ____ Date ____ Notes Red JSH Plotted JCN Job No. 0075.24 Division No. 10 F.B. 2287 Pg. 159

X-Sec. No. ____ Date ____ Notes Chkd JCN Checked JSH Survey of Small Craft Harbors

Date 10-57 Date 10-57 Survey by English Notes Ed. Date 7-11-57

Date 10-57 Date 10-57 Map No. ____ Indexed G. Johnson Date ____

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.			
Note: Location of Pin Rocks in rock reef, By Angles and Stadia dist.							
Inst. at 439+25, ∡s turned clockwise from Z-26							
						∡s 0 1	Stadia dist.
T.P.	213	9 53		7 40			
Pin Rock					Top rock		
" " #3			5 4	4 1	" "	79°26'	245'
" " #4			5 0	4 5	" "	114 52	150'
" " #5		+	1 0	10 5	" "	137 16	128'
in Arroyo Sequit Canyon outlet							

F.B. 2287 PG. 160 Job No. 0075.24 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbors Date 10-57 Date 10-57 No.
Survey by English Notes Ed. Notes Chkd JCN Checked JSH X-Sec.
Indexed C. Johnson Date Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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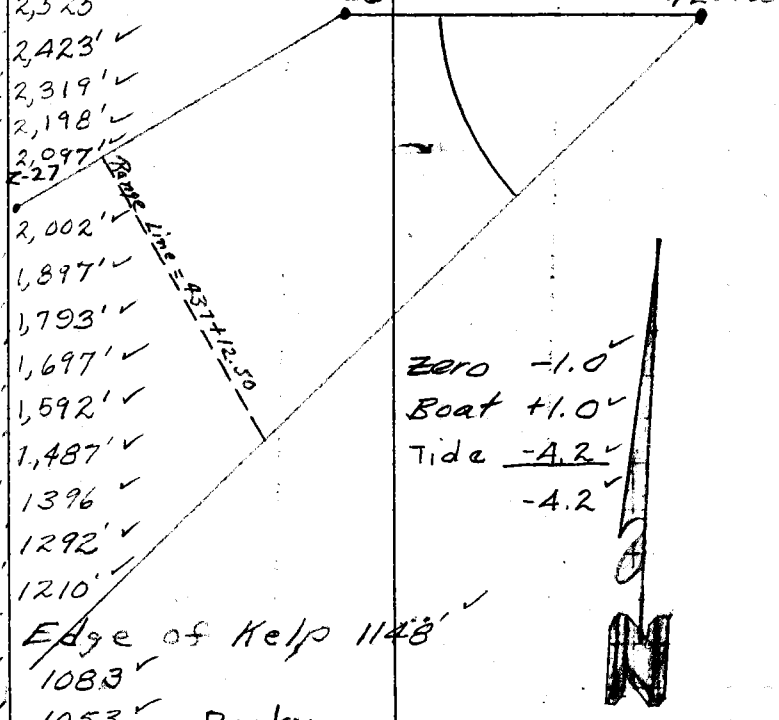
Do not extend notes this side of this line.

STATION Inst. At	Sight On	S. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		1	—		9:55	88° 48'	2,835' Cut in Line 437+12.50
		2	—			86° 47	2,667'
		3	51.6	47.4		84° 48'	2,525'
		4	50.4	46.2		83° 20	2,423'
		5	49.1	44.9		81° 42'	2,319'
		6	47.8	43.6		79° 41'	2,198'
		7	46.8	42.6		77° 52	2,097'
420+00	Z-26	8	45.3	41.1		76° 04	2,002'
		9	43.8	39.6		73° 54'	1,897'
		10	42.5	38.3		71° 41'	1,793'
		11	41.6	37.4		69° 25'	1,697'
		12	40.4	36.2		66° 50'	1,592'
		13	39.2	35.0		64° 02'	1,487'
		14	38.1	33.9		61° 30'	1396
		15	36.9	32.7		58° 27	1292'
		16	36.4	32.2		55° 55'	1210'
		17	35.5	31.3		53° 52	Edge of Kelp 1148'
		18	33.8	29.6		51° 49'	1083
		19	32.3	28.1		50° 50'	1053 Rocky
		20	30.5	26.3		49° 34'	1017



Zero -1.0
Boat +1.0
Tide -4.2
-4.2

Profile Notes Red. JSH Plotted JCN Job No. 0075-24 Division No. 10 F. B. 2287 Pg. 161
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JSH Survey by Van Deren Notes R.T. Date 7-11-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
420+00	Z-26	21	28.8	24.6		48° 23'	983 Cut in Line 437+12.50
		22	26.3	22.1		47° 11'	947
		23	24.8	20.6		45° 41'	903 Rocky
		24	22.8	18.6		44° 15'	864
		25	*20.5	16.3		43° 14'	836
		26	19.8	15.6		42° 40'	820
		27	21.4	17.2		41° 55'	799
		28	17.8	13.6		41° 04'	776
		29	*13.2	9.0		40° 08'	751
		30	16.6	12.4		37° 47'	686
		31	13.8	9.6		36° 20'	646
		32	16.1	11.9		35° 14'	617
		33	15.5	11.3		33° 44'	575
		34	14.7	10.5		32° 21'	538
		35	13.3	9.1		30° 48'	497
		36	11.1	6.9		29° 07'	452
		37	8.6	4.4		27° 35'	409
		38	7.8	3.6		25° 34'	355
		39	6.9	2.7	10:03	24° 01'	311

Zero -1.0
Boat +1.0
Tide -4.2
-4.2

F. B. 2287 Pg. 162 Job No. 0075.24 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 7-11-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. JCN Checked JSH X-Sec.
Indexed K. C. Johnson Date Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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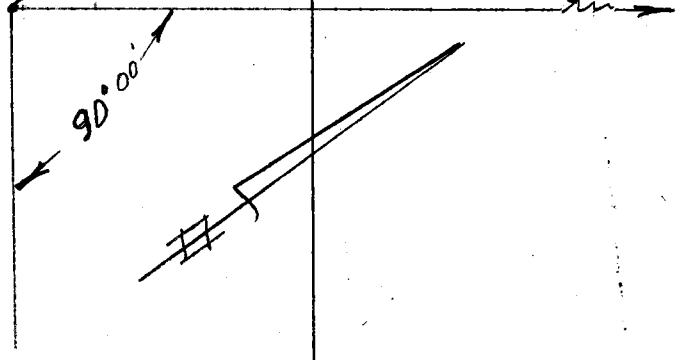
STATION Inst. At	Sight On	B. S. #	H. I. Rec.	Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks	
437+12.5	Z-26	1			9:55	90°00'	437+12.5	To Z-26
		2				"		
		3				"		
		4				"		
		5				"		
		6				"		
		7				"		
		8				"		
		9				"		
		10				"		
		11				"		
		12				"		
		13				"		
		14				"		
		15				"		
		16				"		
		17				"	Edge of Kelp	
		18				"		
		19				"		
		20				"		



Profile Notes Red. JSH Plotted JCN Job No. 00524 Division No. 10 F. B. 2287 Pg. 163
No. Date 10-57 Date 10-57 Survey of Sewell Craft Harbor
X-Sec. Notes Chkd. JCN Checked JSH Survey by Van Deren Notes Hillis Date 7-11-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

F. B. 2287 Pg. 164 Job No. 0075.24 Division No. 10 Notes Red. JSH Plotted JCN Profile

Survey of Small Craft Harbor Date 7-11-57 Date 10-57 No.

Survey by Van Deren Notes Wilks Notes Chkd. JCN Checked JSH X-Sec.

Indexed C. Johnson Date Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks
4474125 Z-26	21			90° 00'	
	22			"	
	23			"	
	24			"	
	25			"	
	26			"	
	27			"	
	28			"	
	29			"	
	30			"	
	31			"	
	32			"	
	33			"	
	34			"	
	35			"	
	36			"	
	37			"	
	38			"	
	39		10:03	"	

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 437+12.50		Sight on 439+25
T.P.	0 88	8 30		7 42			Inshore
439+25			0 0	8 3			439+25
53 'R			1 8	6 5	B.B.		
16 'L		+	0 8	9 1	Brk.		
			5 7	2 6	25° 27'	101'	
			6 2	2 1	31 31	130'	
			7 3	1 0	37 24	163'	
			9 3	-1 0	47 02	228'	
			11 3	-3 0	50 22	256'	
			13 0	-4 7	54 08	294'	
			14 0	-5 7	59 17	358'	
			14 7	-6 4	60 29	375'	
			17 3	-9 0	64 19	442'	
T.P.			0 90	7 40			

Profile
Notes Red JCN Plotted JSH Job No. 0075.24 Division No. 10 F.B. 2287 Pg. 165
No. Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. Notes Chkd JSH Checked JCN Survey by English Notes Ed. Date 7-11-57
No. Date 10-57 Date 10-57 Map No. Indexed Date

76298 S & E #307—7-55

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NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		1	51.6	47.5	10:12	69° 13'	2381' Cut in Line 439+25
		2	51.2	47.1		68° 26'	2286'
		3	49.7	45.6		67° 02'	2132'
		4	48.1	44.0		66° 08'	2042
		5	46.5	42.4		65° 53'	2018
		6	45.1	41.0		63° 47'	1835
		7	43.7	39.6		62° 12'	1714
Z-26	Z-27	8	42.6	38.5		60° 55'	1624
		9	41.7	37.6		59° 40'	1544
		10	40.6	36.5		57° 55'	1441
		11	39.6	35.5		56° 15'	Edge of Kelp 1352'
		12	38.9	34.8		54° 54'	1286
		13	37.8	33.7		53° 38'	1227
		14	34.3	30.2		52° 34'	1180
		15	*30.2	26.1		51° 57'	1155
		16	*29.8	25.7		51° 04'	1118
		17	*29.4	25.3		50° 28'	1095
		18	28.5	24.4		50° 04'	1080
		19	27.8	23.7		49° 47'	1069
		20	30.1	26.0		48° 38'	1026

Range Line = 439+25

Rocky

Zero -0.9
Boat +1.0
Tide -4.2
-4.1

Profile Notes Red. JCN Plotted JSH Job No. 00725.28 Division No. 10 F. B. 2287 Pg. 167
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JCN Survey by Van Deren Notes RT Date 7-11-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

76298 S & E #307—7-55

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F. B. 2287 Pg. 168 Job No. 00152 Division No. 10 Notes Red. JCN Plotted JSH
Survey of Small Craft Harbor Date 10-57 Date 10-57 No. Profile
Survey by Van Dyke Notes R.T. Notes Chkd. JSH Checked JCN
Indexed C. Johnson Date 7-11-57 Date 10-57 Date 10-57 No. X-Sec.

STATION Inst. At	STATION Sight On	B. S. #	H. I. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
Z-26	Z-27	21	29.8	25.7		47° 93'	994 Cut Rocky in Line 439+25
		22	28.4	24.3		46° 40'	958
		23	23.2			45° 14'	911
		24	21.5			43° 51'	868
		25	22.9	18.8		42° 31'	828
		26	22.9	18.8		41° 16'	792
		27	22.4	18.3		39° 15'	738
		28	21.6	17.5		38° 38'	722
		29	19.8	15.7	10:19	37° 30'	693
		30	—	—	10:20	34° 65'	612
		31	13.3	9.2		32° 30'	576
		32	9.9	5.8		30° 23'	529
		~~33~~	~~9.2~~	~~5.1~~		27° 22'	478
		~~34~~	~~8.5~~	~~4.4~~		24° 56'	420
		~~35~~	~~7.7~~	~~3.6~~		22° 18'	370
		~~36~~	~~6.1~~	~~2.0~~		~~19° 32'~~	~~321~~
		~~37~~	~~5.8~~	~~1.7~~	10:22	17° 38'	287
		38					
		39					
		40					

Zero -0.9
Boat +1.0
Tide -4.2
Total -4.1

76298 S & E #307—7-55

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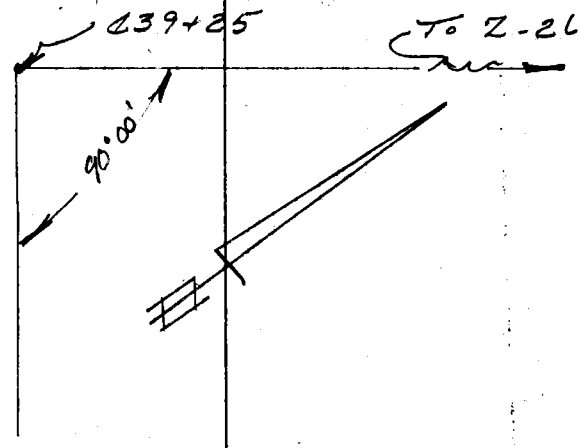
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
439+25	Z-26	1		10:12	90 00		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
		8			"		
		9			"		
		10			"		
		11			"		
		12			"	Begining of Kelp	
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



Profile Notes Red. JCN Plotted JSH Job No. 20 75 24 Division No. 10 F. B. 2287 Pg. 169
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JCN Survey by Van Deren Notes Wilks Date 7-11-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

76298 S & E #307—7-55

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F. B. 2287 Pg. 170 Job No. 00252 Division No. 19 Notes Red. JCN Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No. X-Sec.
Survey by Van Deren Notes Wilks Notes Chkd. JSH Checked JCN
Indexed ~ Date 7-11-57 Date 10-57 No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.		Remarks
439+25 Z-26	21			90° 00'		
	22			"		
	23			"		
	24			"	10:12	
	25			"		
	26			"		
	27			"		
	28			"		
	29		10:19	"		
	30		10 20	"		
	31			"		
	32			"		
	33			"		
	34			"		
	35			"		
	36			"		
	37		10:22	"		

76L298 307 10-51

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726 LOS ANGELES COUNTY
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Profile No. ____ X-Sec. No. ____

Notes Red USH Plotted KEK Job No. 0075.24 Division No. 10 F.B. 2287 Pg. 171
Date 10-57 Date 10-57 Survey of Small Craft Harbors
Notes Chkd KEK Checked JSH Survey by English Notes Ed. Date 7-11-57
Date 10-57 Date 10-57 Map No. ____ Inked ____ Date ____

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 437+12.50	Sight on 440+71.00
T.P.	0 56	7 96		7 40		Inshore
440+71.00			1 0	7 0		440+71.00
19 'L			0 6	7 4	Bot. rock.	
33 'L		+	10 0	18 0	Top "	
36 'L		+	5 8	13 8	Bot. "	
84 'L			3 1	4 9	Bot "	
		8 0				
			5 4	2 6	16° 41' 108'	
			7 1	0 9	21 36 142'	
			8 9	-0 9	26 34 179'	
			10 0	-2 0	30 24 210'	
			11 7	-3 7	35 11 253'	
			14 8	-6 8	39 25 295'	
			15 5	-7 5	42 33 329'	
			17 6	-9 6	48° 18' 402'	
T.P.	12 07	19 47		7 40		
T.P.	16 45	35 86	0 06	19 41		
Z-27			2 39	33 47	Z-27, el.= 33.441 (M.L.L.W.), F.B. 2100-135	

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Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
Z-26	Z-27	1	52.4	48.4	10:38	64° 13'	2172 ✓ Cut in Line 440+71.00
		2	51.2	47.2		63° 07'	2071 ✓
		3	49.8	45.8		61° 51'	1961' ✓ Z-27 Z-26
		4	47.9	43.9		60° 43'	1871 ✓
		5	46.8	42.8		59° 37'	1790 ✓
		6	45.2	41.2		58° 10'	1691 ✓
		7	43.6	39.6		56° 43'	1598 ✓
		8	41.8	37.8		54° 35'	1476 ✓
		9	40.3	36.3		52° 37'	1374 ✓
		10	38.9	34.9		50° 44'	Edge of Kelp 1283 ✓
		11	37.4	33.4		48° 51'	1201 ✓
		12	*34.3	30.3		47° 50'	1159 ✓
		13	*34.3	30.3		47° 14'	1134 ✓
		14	34.7	30.7		46° 31'	1106 ✓
		15	34.7	30.7		45° 18'	1061 ✓
		16	33.1	29.1		44° 09'	1019 ✓
		17	*26.7	22.7		42° 48'	972 ✓
		18	27.1	23.1		41° 56'	942 ✓
		19	27.2	23.2		40° 05'	884 ✓
		20	26.4	22.4		38° 30'	834 ✓

Range Line = 440+71.00

Rocky

Zero −0.8 ✓
Boat +1.0 ✓
Tide −4.2 ✓
Total −4.0 ✓

Profile No. ____ Notes Red. JSH Plotted KRK Job No. 007524 Division No. 10 F. B. 2287 Pg. 173
Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. No. ____ Notes Chkd. KRK Checked JSH Survey by Van Deren Notes R.T. Date 7-11-57
Date 10-57 Date 10-57 Map No. ____ Date ____

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION Inst. At	STATION Sight On	S. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		21	25.2	21.2		36° 03'	787 Cut in Line 440+71.00
		22	24.0	20.0		36° 16'	770 Rocky
		23	22.5	18.5		34° 33'	723
		24	20.1	16.1		33° 18'	689
		25	19.8	15.8		32° 08'	659
		26	20.2	16.2		30° 43'	623
		27	19.6	15.6		29° 07'	585
		28	17.4	13.4		27° 37'	549
		29	15.6	11.6		25° 51'	509 Rocky
Z-26	Z-27	30	12.8	8.8		24° 15'	472
		31	12.7	8.7	10:44	22° 42'	439

Zero -0.8
Boat +1.0
Tide -4.2
-4.0

Location of Pin Rocks

Z-26	Z-27	10:52 Pin Rock #1 = 46° 50'
		10:55 West Edge Pin Rock #2 = 25° 07'
		" " East Edge Pin Rock #2 = 20° 07'
		See pg 177

F. B. 2287 Pg. 174 Job No. 0075.29 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd JCN Checked JSH X-Sec.
Indexed C. Johnson Date 7-11-57 Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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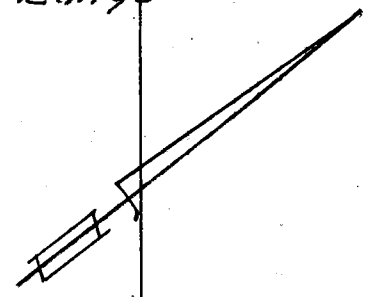
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
440+71	Z-26	1		10:38	90° 00'	440+71	To Z-26
		2			"	Range	
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
		8			"		
		9			"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



Profile No. ____ Notes Red. JSH Date 10-57 Plotted JCN Date 10-57 Job No. 00 75 24 Division No. 10 Survey of Small Craft Harbor Survey by Van Deren Notes Wilks Date 7-11-57 F. B. 2287 Pg. 175

X-Sec. No. ____ Notes Chkd. JCN Date 10-57 Checked JSH Date 10-57 Map No. ____ Indexed Johnson Date ____

76298 S & E #307—7-55

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
440+71	Z-26	21			90° 00'		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30			"		
		31		10 44	"		
		Location of Pin Rocks					
439+25	Z-26			10:55	59° 28	Clockwise Angle To Pin Rk. #1	
				"	71° 24	" "	" Left edge No. 2
				"	" "	" "	Rt. edge Pin Rk #2
						See pg 177	

F. B. 2287 Pg. 176 Job No. 75.24 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 7-11-57 Date 10-57 No.
Survey by Van Doren Notes Wilks Notes Chkd. JCN Checked JSH X-Sec.
Indexed R. C. Johnson Date Date 10-57 Date 10-57 No.

Notes Ck'd by	Survey of
Map No.	JN Tape Std °F
Office Work	Surveyed by
Checked	Notes Date
Date	Indexed E. C. Johnson

F. B. Pg.

7-12-57

Soundings at Lachusa Point

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red-Ink With Date and Name of Person Making Change.

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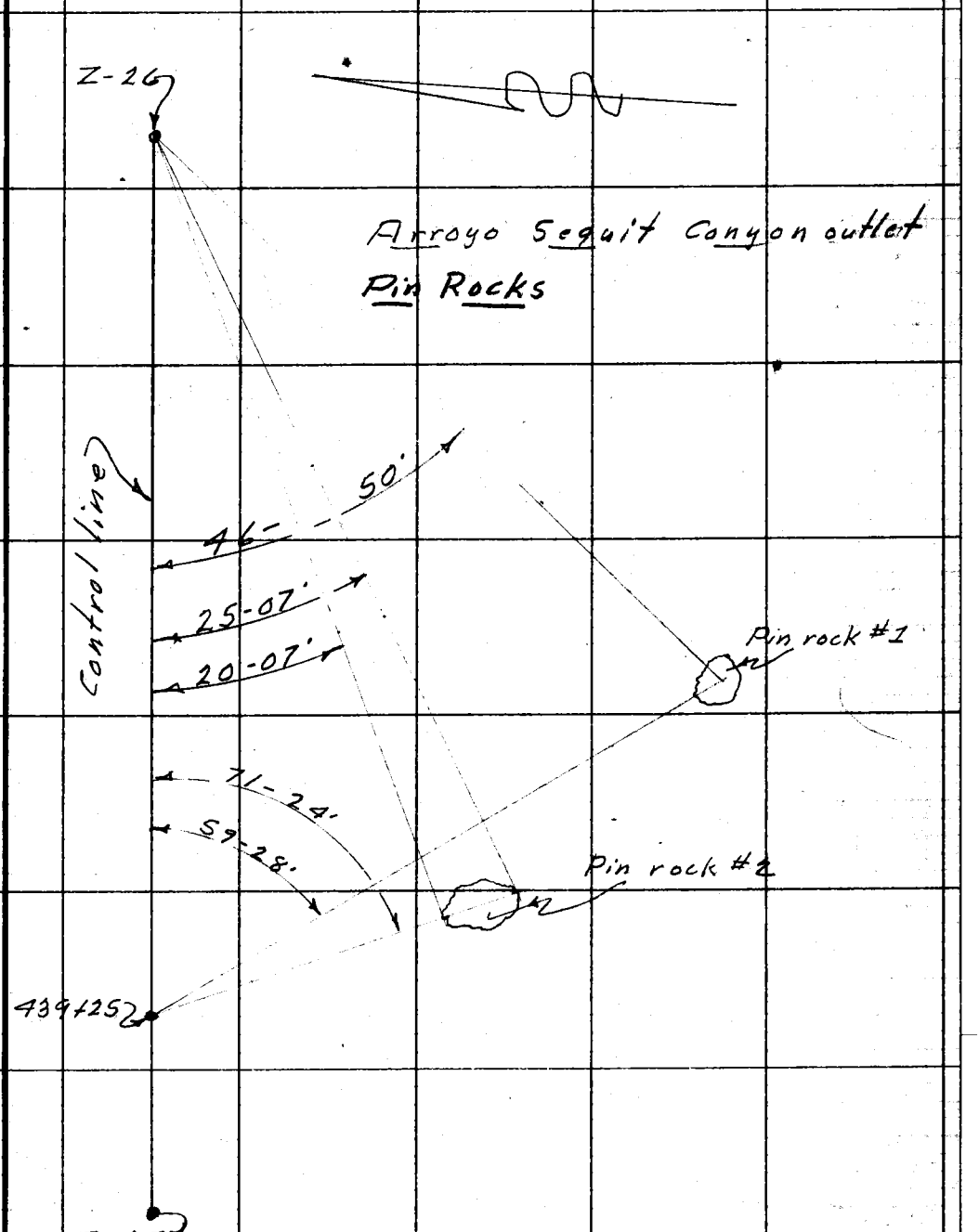
700 Los Angeles County Engineering Bldg.

76F309S S&E #247 1-56

Notes Ck'd by KRK	Survey of Small Cr Hwy
Map No.	JN 247524 Tape Std °F
Office Work KRK	Surveyed by M.A. Van Deren
Checked JCN	Notes Van Date 7-11-57
Date 10-57	Indexed C. Johnson

F. B. 2287 Pg. 177



Note: Any Additions or Changes on this Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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76F3095 S&E #247 1-56

F. B. 2287 Pg. 178

Tide Gauge Readings at Santa Monica

All Readings are on Daylight Saving time

7-12-57

Scale on 2.7

Gauge Time	Watch Time	
7:00 A.M.		+0.7
7:30 "		+1.4
8:00 "		+2.1
8:30 "		+2.7
9:00 "		+3.2
9:30 "		+3.6
10:00 "		+3.9
10:30 "		+4.1
11:00 "		+4.1
11:30 "		+4.2
12:00 "		+4.0
12:30 P.M.		+3.8
1:00 "		+3.6
1:30 "		+3.3
2:00 "		+29
2:30 "		+2.5
3:00 "	3:00	+2.3

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76F3098 S&E #247 1-56

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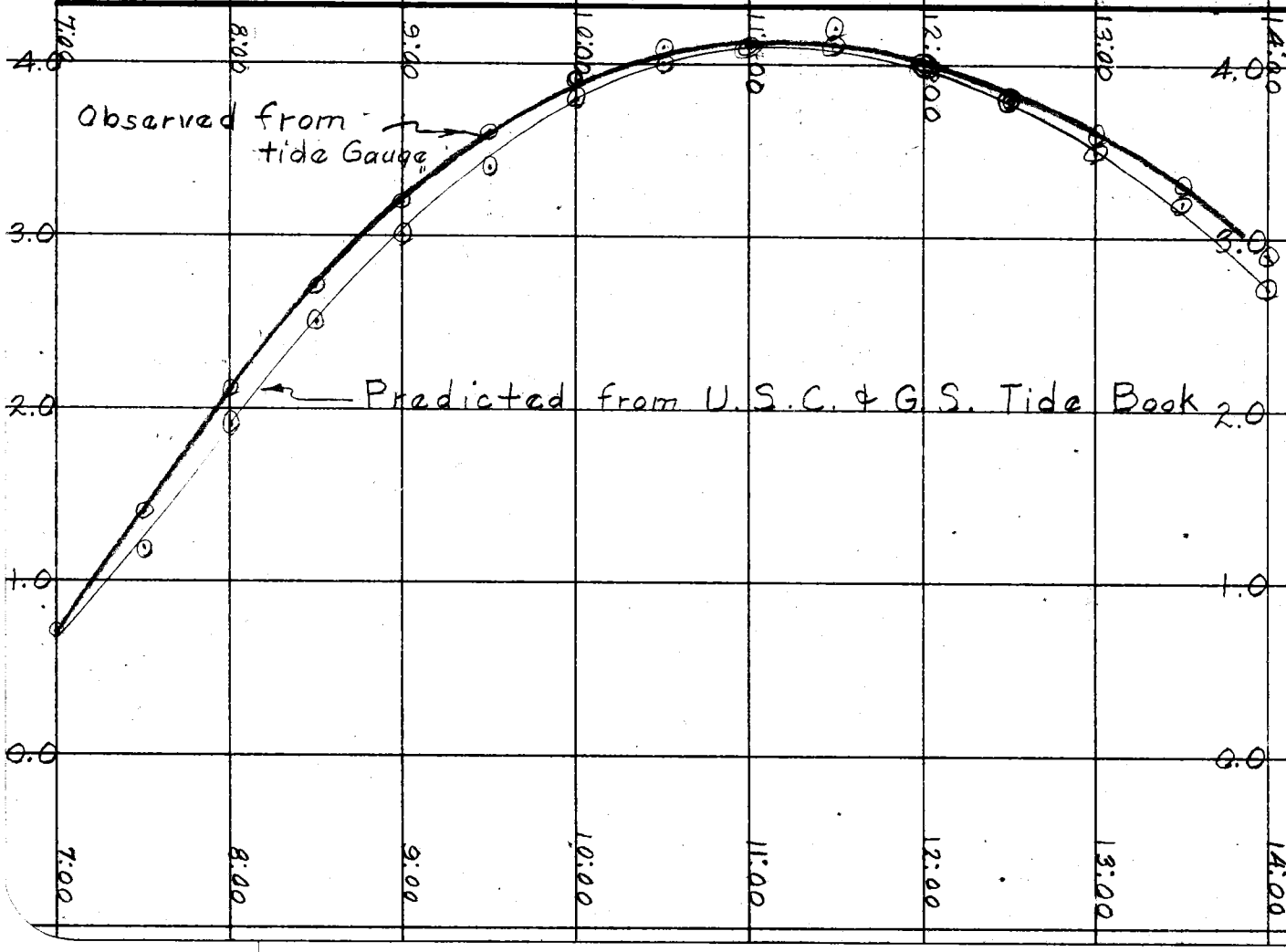

Notes Ck'd by JCN
Map No.
Office Work JCN
Checked KRK
Date 10-57

Survey of Small Craft Harbor
JN 00755.24 Tape Std. °F
Surveyed by
Notes Date
Indexed

F. B. 2287 Pg. 178 A

July 12, 1957

76L298 307 10-51

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. at 195+00		Sight on 192+50
Z-7	2.64	14.15		11.51	Z-7, EL=11.51,		Inshore
TP	0.95	8.99	6.11	8.04	F.B. 2100-114		192+50
192+50			+48	13.8			
70 L.			+32	12.2	Brk		
			2.34	6.7	22° 50'	105'	
			73	1.7	33 56	168'	
			88	0.2	42 09	226'	
			97	-0.7	47 23	272'	
			113	-2.3	52 19	324'	
			126	-3.6	55 17	361'	
			153	-6.3	58 49	413'	
			180	-9.0	61 36	462'	

LACHUSA COVE

Profile No. ____ Date 10-57 Notes Red VCN Plotted JSH Job No. 0075.24 Division No. 10 F.B. 2287 Pg. 177
X-Sec. No. ____ Date 10-57 Notes Chkd JSH Checked VCN Survey by English Survey of Small Craft Harbors Notes Ed. Date 7-12-57
Date 10-57 Map No. ____ Indexed Johnson Date 7-16-57

76298 S & E #307—7-55

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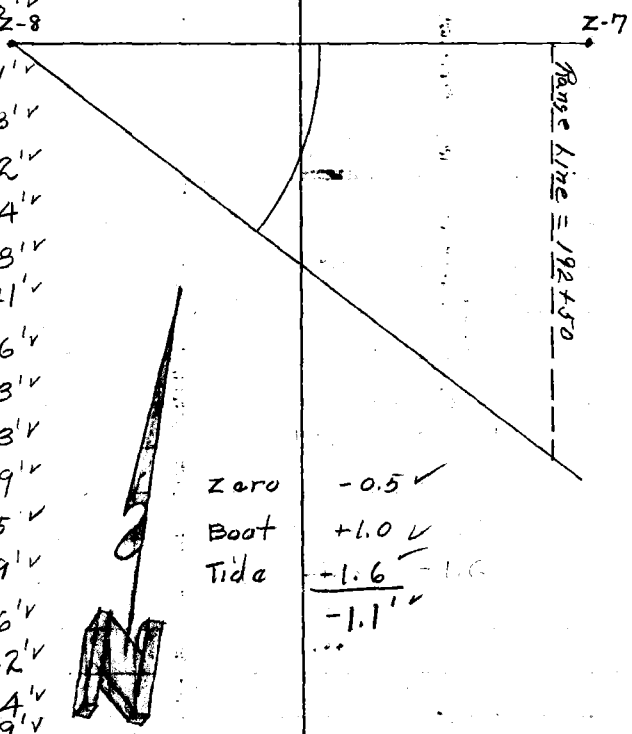
STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor.	ELEV. Ang.	Remarks
		1	51.9	50.8	7:34	61°	35'	2,355' Cut in Line 192+50
		2	50.3	49.2'		60°	26'	2,247'
		3	48.9	47.8'		59°	28'	2,160'
		4	47.8	46.7'		58°	39'	2,091'
		5	46.1	45.0'		57°	36'	2,008'
		6	44.3	43.2'		56°	11'	1,902'
		7	42.9	41.8'		54°	46'	1,804'
Z-8	Z-7	8	41.7	40.6'		53°	26'	1,718'
		9	40.4	39.3'		52°	16'	1,641'
		10	39.3	38.2'		50°	52'	1,566'
		11	37.5	36.4'		49°	08'	1,473'
		12	35.7	34.6'		47°	20'	1,383'
		13	34.4	33.3'		45°	46'	1,309'
		14	33.0	31.9'		44°	20	1,245'
		15	31.1	30.0'		42°	32'	1,169'
		16	29.6	28.5'		40°	58'	1,106'
		17	28.1	27.0'		39°	17'	1,042'
		18	27.3	26.2'		37°	40'	984'
		19	26.7	25.6'		36°	06'	929' Edge of Kelp
		20	25.1	24.0		34°	02'	860'



Zero	-0.5
Boat	+1.0
Tide	-1.6
	-1.1'

Profile Notes Red. JCN Plotted JSH Job No. 0075.24 Division No. 10 F. B. 2287 Pg. 181
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JCN Survey by Van Deren Notes R.T. Date 9-12-57
No. Date 10-57 Date 10-57 Map No. Ended Johnson Date

76298 S & E #307—7-55

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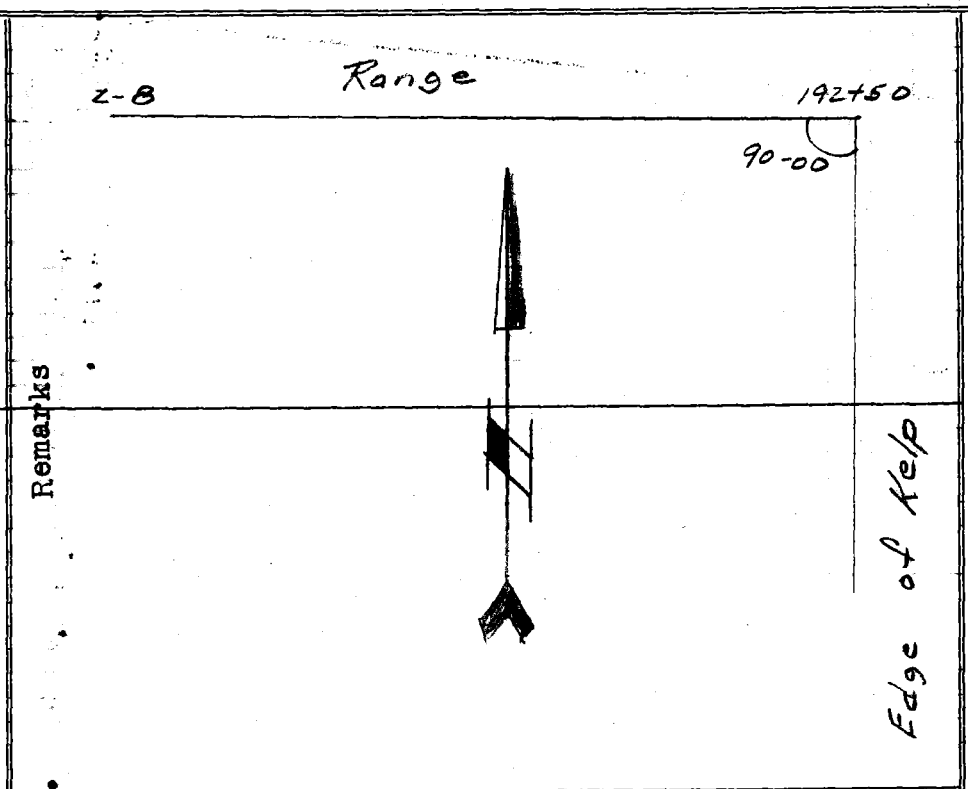
STATION		B. S.	H. I.	F. S.	ELEV.				
Inst. At	Sight On	#	Depth Rec.	Depth Adj.	Time	Hor. Ang.	Remarks		
		21	22.8	21.7'		31° 50'	791	Cut in Line 192+50	
		22	21.7	20.6'		29° 26'	719		
		23	20.4	19.3'		27° 40'	668		
		24	18.3	17.2'		25° 34'	609	Tide 1-26	Tide 27-31
		25	16.1	15.0'		23° 58'	567	Zero -0.5	Zero -0.3
		26	14.4	13.3'		22° 38'	531	Boat +1.0	Boat +1.0
		27	12.7	11.8'		21° 20'	498	Tide -1.6	Tide -1.6
		28	11.0	10.1'		19° 47'	459	-1.1	-0.9
Z-8	Z-7	29	8.9	8.0'		18° 18'	422		
		30	6.6	5.7'		16° 34'	378		
		31	5.3'	4.4'	7:40	15° 16'	348		
		32							
		33							

F. B. 2287 Pg. 182 Job No. 0075-24 Division No. 10 Notes Red. JCN Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. JSH Checked JCN X-Sec.
Indexed C. Johnson Date 7-12-57 Date 10-57 Date 10-59 No.

Profile No.	Notes Red. JSH	Plotted JCN	Job No. 007524	Division No. 10	F. B. 2287 Pg. 183
	Date 10-57	Date 10-57	Survey of Small Craft Harbor		
X-Sec. No.	Notes Chkd. JCN	Checked JSH	Survey by Van Deren	Notes Wilks	Date 7-12-57
	Date 10-57	Date 10-57	Map No. ~~Indexed~~ G. Johnson		Date



STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On 192+50 Z-8	#	Depth Rec. Adj.	Time	Hor. Ang.	
	1		7 34	90 00	
	2			"	
	3			"	
	4			"	
	5			"	
	6			"	
	7			"	
	8			"	
	9			"	
	10			"	
	11			"	
	12			"	
	13			"	
	14			"	
	15			"	
	16			"	
	17			"	
	18			"	
	19			"	
	20			"	

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
192+50	2-8	21			90 00		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30			"		
		31		7 40	"		

F. B. 2287 Pg. 184 Job No. 0075.24 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 7-12-57 Date 10-57 No.
Survey by Van Deren Notes Wilks Notes Chkd. JCN Checked JSH X-Sec.
Indexed C. Johnson Date Date 10-57 Date 10-57 No.

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst @ 197+50	Sight on 195+50
		8 99				Inshore
195+00			47	43		195+00
35.5 L.			30	~~5.9~~ 6.0	Brk	
			40	50	18° 09' 82'	
			69	21	28 52 138'	
			83	07	36 20 184'	
			93	-03	42 17 227'	
			107	-17	48 10 279'	
			121	-31	52 19 324'	
			145	-55	56 30 378'	
			169	-79	59 55 432'	
T.P.			157	742		

Profile No. ____ Date 10-57 Notes Red JCN Plotted JSH Job No. 0075.24 Division No. 10 F.B. 2287 Pg. 185

X-Sec. No. ____ Date 10-57 Notes Chkd JSH Checked JCN Survey of Small Craft Harbors

Date 10-57 Map No. ____ Inspected Johnson Date 7-12-57

76298 S & E #307—7-55

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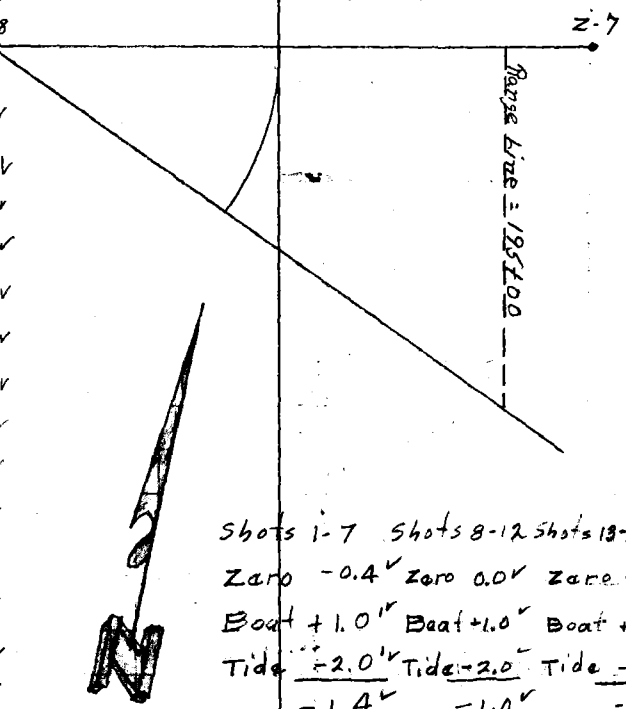
STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
Z-8	Z-7	1	50.3	48.9'	7:52	65° 30'	2,247 Cut in Line 195+00
		2	48.4	47.0'		63° 40'	2,069
		3	46.9	45.5'		62° 54'	2,001 Z-8
		4	46.0	44.6'		62° 11'	1,941
		5	44.0	42.6'		61° 08'	1,858
		6	42.5	41.1'		60° 00'	1,774
		7	41.1	39.7'		58° 54'	1,698
		8	39.3	38.3'		57° 41'	1,619
		9	38.0	37.0'		56° 33'	1,551
		10	36.9	35.9'		55° 15'	1,476
		11	35.7	34.7'		53° 42'	1,394
		12	34.4	33.4'		52° 22'	1,328
		13	32.9	31.4'		50° 44'	1,253
		14	31.6	30.1'		49° 04'	1,181
		15	30.0	28.5'		47° 13'	1,107
		16	28.4	26.9'		45° 30'	1,043
		17	26.8	25.3'		43° 18'	965
		18	24.9	23.4		41° 08'	894
		19	23.6	22.1'		39° 10'	835
		20	21.8	20.3'		36° 48'	766



Shots 1-7	Shots 8-12	Shots 13-30
Zero -0.4	Zero 0.0	Zero -0.5
Boat +1.0	Boat +1.0	Boat +1.0
Tide -2.0	Tide -2.0	Tide -2.0
-1.4	-1.0	-1.5

Profile No. ____ Notes Red. JCN Plotted JSH Job No. 0025.28 Division No. 10 F. B. 2287 Pg. 187
Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. No. ____ Notes Chkd. JSH Checked JCN Survey by Van Deren Notes RT Date 9-12-57
Date 10-57 Date 10-57 Map No. ____ Indexed Johnson Date ____

76298 S & E #307—7-55

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STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Remarks	
		21	21.0	19.5'		34° 16'	698' V	Cut in Line 195+00
		22	19.2	17.7'		32° 12'	645' V Edge of Kelp	Rocky
		23	19.3	17.8'		31° 05'	618' V	
		24	18.1	16.6'		29° 56'	590' V	
		25	16.0	14.5'		28° 09'	548' V	
		26	15.2	13.7'		26° 30'	511' V	Zero -0.5 V
		27	13.4	11.9'		25° 17'	483' V	Boat +1.0 V
		28	12.3	10.8'		23° 50'	453' V	Tide -2.0 V
Z-8	Z-7	29	11.1	9.6'		22° 51'	431' V	-1.5' V
		30	9.5	8.0'	7:58	20° 53'	391' V	
		31						
		32						
		33						
		34						
		35						

F. B. 2287 Pg. 188 Job No. 0075:29 Division No. 10 Notes Red. VCN Plotted VSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. VSH Checked VCN X-Sec.
Indexed K. C. Johnson Date 7-12-57 Date 10-57 Date 10-57 No.

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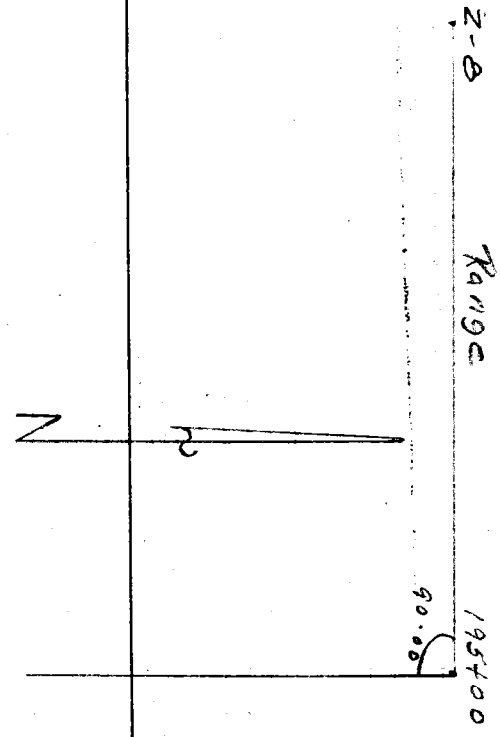
STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
195+00	Z-8	1		7 52	90 00		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
		8			"		
		9			"		
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



Profile Notes Red. JCN Plotted JSH Job No. 0025.26 Division No. 10 F. B. 2287 Pg. 189
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JCN Survey by Van Deren Notes Wilks Date 7-12-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

76298 S & E #307—7-55

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
195+00	Z-8	21			90 00	Edge of Kelp	
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30		7 58	"		

F. B. 2287 Pg. 190 Job No. 0025.24 Division No. 10 Notes Red. JCN Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes Wilks Notes Chkd. JSH Checked JCN X-Sec.
Indexed C. Johnson Date 7-12-57 Date 10-57 Date 10-57 No.

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst @ 200+00	Sight on 197+50
T.P.	0 42	7 84		7 42		Inshore
197+50			+44	12 2		197+50
29° R			+52	13 0	Bott. Cliff	
5° L			+44	12 2	Brk	
			28	5 0	11° 14' 50'	
			60	1 8	25 17 118'	
			72	0 6	33 17 164'	
			84	- 0 6	40 59 217'	
			103	- 2 5	48 58 287'	
			117	- 3 9	52 26 325'	
			170	- 9 2	57 56 399'	

Profile
No. ____ Date ____ Notes Red JSH Plotted JCN Job No. 0075.24 Division No. 10
X-Sec. Notes Chkd JCN Checked JSH Survey of Small Craft Harbors
No. ____ Date 10-57 Date 10-57 Survey by English Notes Lind Date 7-12-57
Date 10-57 Date 10-57 Map No. ____ Indexed J. C. Johnson Date ____

F.B. 2287 Pg. 191

76298 S & E #307—7-55

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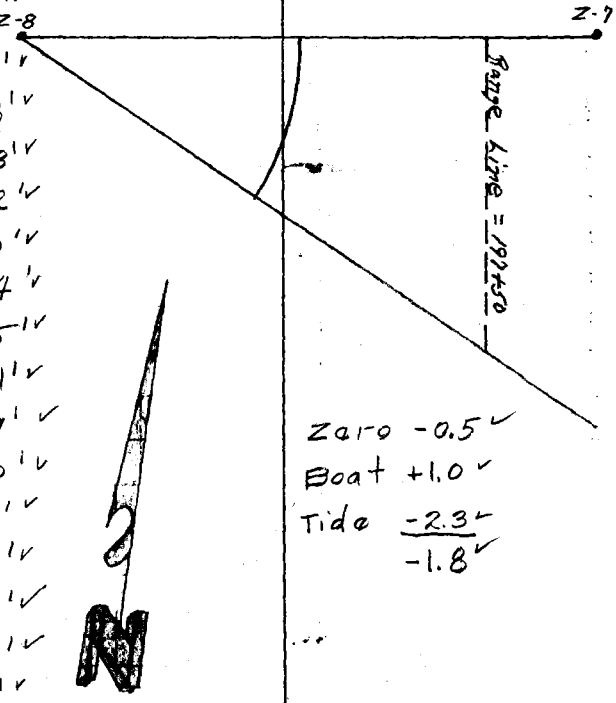
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
Z-8	Z-7	1	51.3	49.5'	8:05	71° 08'	2,266' Cut in Line 197+50
		2	48.6	46.8		70° 02'	2,131'
		3	46.5	44.7		68° 48'	1,996'
		4	44.9	43.1		67° 49'	1,899'
		5	43.3	41.5'		66° 49'	1,808'
		6	41.5	39.7		65° 48'	1,723'
		7	40.2	38.4'		64° 53'	1,652'
		8	38.9	37.1'		63° 45'	1,570'
		9	37.3	35.5'		62° 26'	1,484'
		10	36.0	34.2'		61° 09'	1,405'
		11	33.9	32.1'		59° 37'	1,321'
		12	32.4	30.6'		57° 47'	1,229'
		13	30.3	28.5'		56° 16'	1,160'
		14	28.2	26.4'		54° 08'	1,071'
		15	26.7	24.9'		52° 13'	999'
		16	24.7	22.9'		49° 58'	921'
		17	23.4	21.6'		48° 15'	867'
		18	22.5	20.7'		46° 20'	811'
		19	21.7	19.9'		44° 36'	Edge of Kelp 763'
		20	21.0	19.2'		43° 40'	739'



Zero -0.5
Boat +1.0
Tide -2.3
-1.8

Profile Notes Red. JSH Plotted JCN Job No. 0025.29 Division No. 10 F. B. 2287 Pg. 193
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JSH Survey by Van Deren Notes R.T. Date 7-12-57
No. Date 10-57 Date 10-57 Map No. Date

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
		21	19.2	17.4'		42° 15'	703' Cut in Line 197+50
		22	17.6	15.8'		40° 13'	655' Rocky
		23	15.4	13.6'		38° 21'	612'
		24	14.4	12.6'		36° 50'	580'
		25	14.1	12.3'		34° 34'	533' Zero -0.5
		26	14.2	12.4'		32° 25'	492' Boat +1.0
		27	13.2	11.4'		30° 25'	454' Tide -2.3
		28	*10.4	8.6'		28° 36'	422' -1.8
Z-8	Z-7	29	8.7	6.9'		25° 05'	362'
		30	7.0	5.2'	8:10	23° 36'	338'
		31					
		32					
		33					
		34					
		35					

F. B. 2287 Pg. 199 Job No. 0075.29 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 7-12-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. JCN Checked JSH X-Sec.
Indexed C. Johnson Date Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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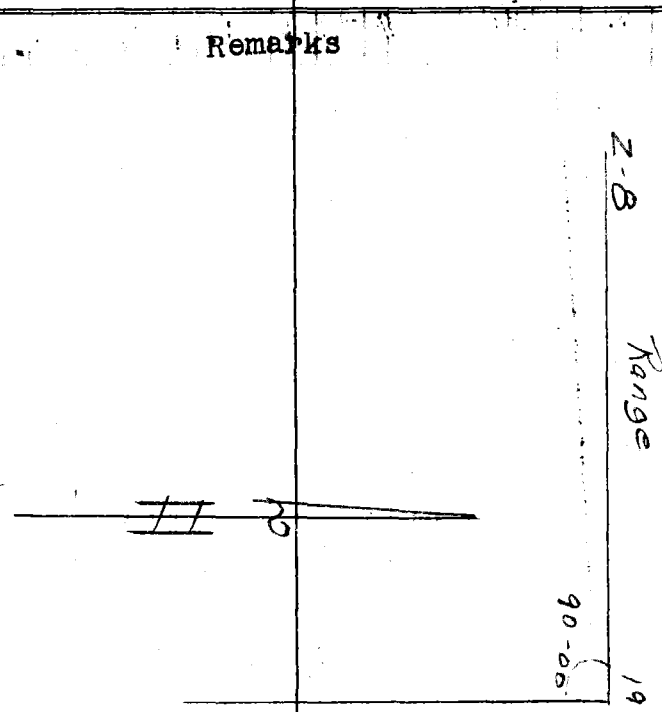
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
197+50	Z-8	1		8 05	90 00	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
		8			"	
		9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	
		19			"	Edge of Kelp
		20			"	



Profile Notes Red. VSH Plotted VCN Job No. 2025.26 Division No. 10 F. B. 22097 Pg. 195
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. VCN Checked VSH Survey by Van Deren Notes Wilks Date 7-12-57
No. Date 10-57 Date 10-57 Map No. Checked Johnson Date

76298 S & E #307—7-55

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NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
197+50	2-8	21			90 00		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			91 30		
		30		8 10	91 30		

F. B. 2287 Pg. 196 Job No. 00 25 24 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 7-12-57 Date 10-57 No.
Survey by Van Deren Notes Wilks Notes Chkd. JCN Checked JSH X-Sec.
Indexed C. Johnson Date Date 10-57 Date 10-57 No.

76L298 307 10-51

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst @ 197+50	Sight on 200+00
		784				Inshore 200+00
200+00			+34	112		
5° R.			+40	118	Brk	
49° R.			+44	122	Bott Cliff	
			29	49	9° 45' 43'	
			54	24	18 13 82'	
			69	09	28 54 138'	
			88	-10	41 47 224'	
			111	-33	48 41 285'	
			148	-70	52 08 322'	
			178	-100	57 20 390'	
			168	-90	59 56 432'	
T.P.			195	589		

Profile No. ____ Notes Red JCN Plotted JSH Job No. 0075-24 Division No. 10 F.B. 2287 PG. 197
Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. No. ____ Notes Chkd JSH Checked JCN Survey by English Notes Lead Date 7-12-57
Date 10-57 Date 10-57 Map No. ____ Indexed Johnson Date ____

76298 S & E #307—7-55

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NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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Profile No. ____ Notes Red. JCN Date 10-57 Plotted JSH Date 10-57 Job No. 0828-4 Division No. 10 F. B. 0000 Pg. 196
X-Sec. No. ____ Notes Chkd. JSH Date 10-57 Checked JCN Date 10-57 Survey of Small Craft Harbor Survey by Lay Dixon Notes AT Date 7-12-57 Map No. ____ Reviewed Johnson Date ____

STATION Inst. At	Sight On	S. S. #	H. I. Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
192+50	N.8	1	48.2	45.9	8:33	69° 55'	2,051' Cut in Line 200+00
		2	45.7	43.4		68° 55'	1,946'
		3	43.7	41.4		67° 50'	1,841' Z-8
		4	41.8	39.5		66° 56'	1,761'
		5	40.1	37.8		65° 37'	1,655'
		6	38.3	36.0		64° 12'	1,552'
		7	37.2	34.9		63° 02'	1,474'
		8	35.6	33.3		61° 51'	1,402'
		9	34.3	32.0		60° 32'	1,328' Edge of Kelp
		10	32.8	30.5		59° 02'	1,250'
		11	30.8	28.5		57° 33'	1,180'
		12	29.6	27.3		56° 02'	1,113'
		13	28.2	25.9		54° 22'	1,046'
		14	26.3	24.0		52° 29'	977'
		15	23.9	21.6		50° 37'	914'
		16	22.1	19.8		48° 28'	847'
		17	20.4	18.1		46° 26'	788'
		18	20.3	18.0		45° 30'	764'
		~~19~~	—	—		~~45° 02'~~	~~751'~~
		20	19.9	17.6		42° 22'	684'

Base Line = 200+00

Zero -0.5
Boat +1.0
Tide -2.8
-2.3'

76298 S & E #307—7-55

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STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.		Remarks
		21	16.7	14.3		40° 02'	630'	Cut in Line 200+00
		22	16.7	14.3		37° 42'	580'	
		23	15.0	12.6		35° 43'	539'	
		24	13.2	10.8		33° 38'	499'	
		25	12.4	10.0		31° 28'	459'	Zero -0.5
		26	12.5	10.1		29° 20'	422'	Boat +1.0
		27	11.0	8.6		27° 00'	383'	Tide -2.9
		28	9.3	6.9		24° 35'	343'	-2.4
		29	7.3	4.9		22° 22'	308'	
192+50	2-8	30	—	—	8:40	20° 35'	282'	

F. B. 2287 PG. 200 Job No. 0076.24 Division No. 10 Notes Red. JCN Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. JSH Checked JCN X-Sec.
Indexed A. J. Johnson Date 7-12-57 Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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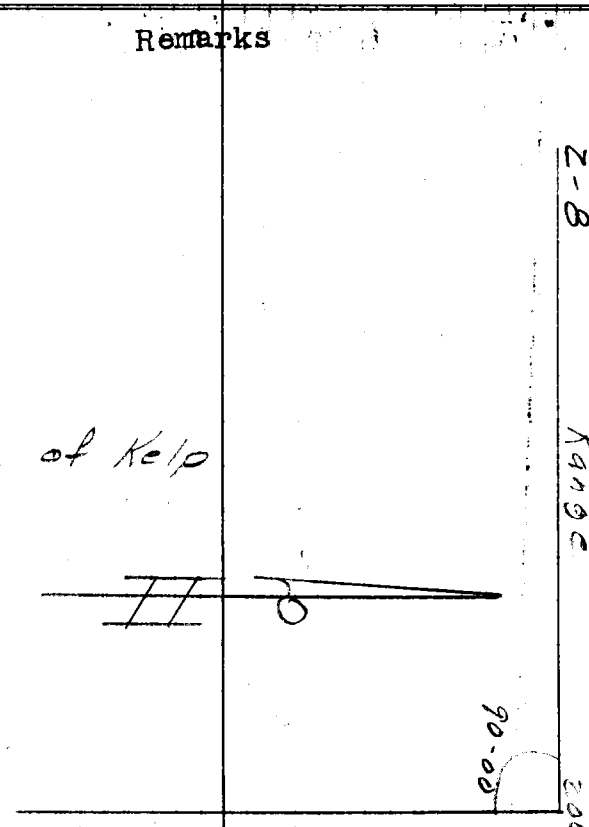
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
200+00	Z-8	1		8 33	90 00		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
		8			"		
		9			"	Edge of Kelp	
		10			"		
		11			"		
		12			"		
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



Profile Notes Red. JCN Plotted JCN Job No. 0025.24 Division No. 10 F. B. 2287 PG 201
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JSH Survey by Van Deren Notes Wilks Date
No. Date 10-57 Date 10-57 Map No. Index changes Date

76298 S & E #307—7-55

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F. B. 2287 Pg. 202 Job No. 0075.24 Division No. 10 Notes Red. JCN Plotted JCN
Survey of Small Craft Harbor Date 10-57 Date 10-57 No. Profile
Survey by Van Deren Notes Wilks Notes Chkd. JSH Checked JSH X-Sec.
Indexed K. C. Johnson Date 7-12-57 Date 10-57 Date 10-57 No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.		Remarks
200+00	Z-8	21			90 00		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30		8 40	"		

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst @ 200+00	Sight on 202+00
T.P.	081	670		589		Inshore
202+00			+49	116		202+00
38° R.			+53	120	Bott Cliff	
7° L.			+49	116	Brk	
			17	50	13° 01' 46'	
			45	22	27 04 102'	
			64	03	41 00 174'	
			80	-13	48 39 227'	
			113	-46	56 20 300'	
			160	-93	62 13 380'	
			166	-99	64 12 414'	

Profile No. ____ Date ____ Notes Red. JSH Plotted VCN Job No. 007524 Division No. 10 F.B. 2287 Pg. 203

X-Sec. No. ____ Date ____ Notes Chkd. VCN Checked VSH Survey of Small Craft Harbors

Date 10-57 Date 10-57 Survey by English Notes Lind Date 7-12-57

Date 10-57 Date 10-57 Map No. ____ Index ____ Date ____

76298 S & E #307—7-55

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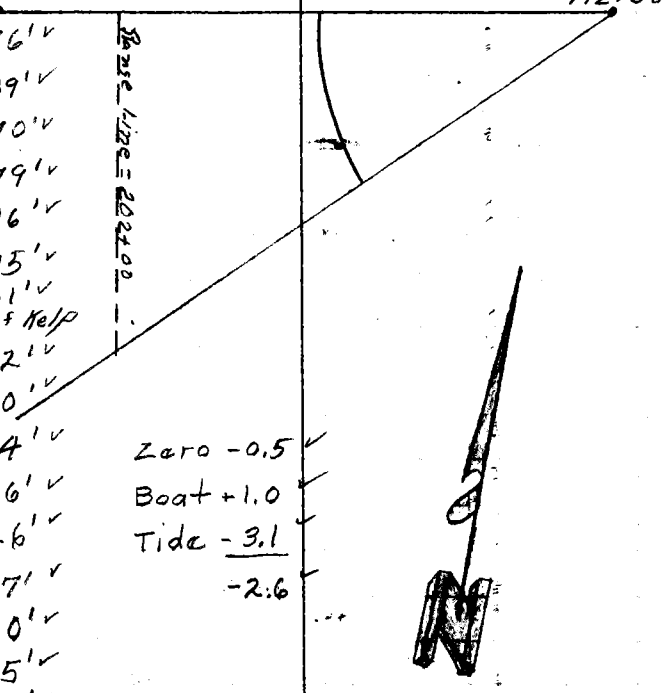
Do not extend notes this side of this line.

STATION Inst. At	Sight On	S. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
192+50	Z-8	1	51.3	48.7'	8:51	66° 33'	2,190' Cut in Line 202+00
		2	49.1	46.5'	—	65° 33'	2,089'
		3	46.9	44.2'	—	64° 20'	1,977' Z-8
		4	44.4	41.8'	—	63° 09'	1,876'
		5	42.7	40.1'	—	62° 02'	1,789'
		6	40.7	38.1'	—	60° 22'	1,670'
		7	38.7	36.1'	—	58° 58'	1,579'
		8	37.1	34.5'	—	57° 35	1,496'
		9	35.3	32.7'	—	56° 07	1,415'
		10	33.4	30.8'	—	55° 06'	1,361' Edge of Kelp
		11	33.0	30.4'	—	53° 53'	1,302'
		12	31.8	29.2'	—	52° 46'	1,250'
		13	30.8	28.2'	—	51° 30'	1,194'
		14	28.4	25.8'	—	49° 05'	1,096'
		15	27.7	25.1'	—	47° 45'	1,046'
		16	27.1	24.5'	—	46° 40'	1,007'
		17	26.2	23.6'	—	45° 35'	970'
		18	24.3	21.7'	—	43° 55'	915'
		19	23.5	20.9'	—	42° 38'	875'
		20	22.1	19.5'	—	41° 04'	827'



Zero -0.5
Boat +1.0
Tide -3.1
-2.6

Profile Notes Red. JCN Plotted JSH Job No. 0075.24 Division No. 10 F. B. 2287 Pg. 105
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JCN Survey by Van Deven Notes R.T. Date 7-12-57
No. Date 10-57 Date 10-57 Map No. Date

76298 S & E #307—7-55

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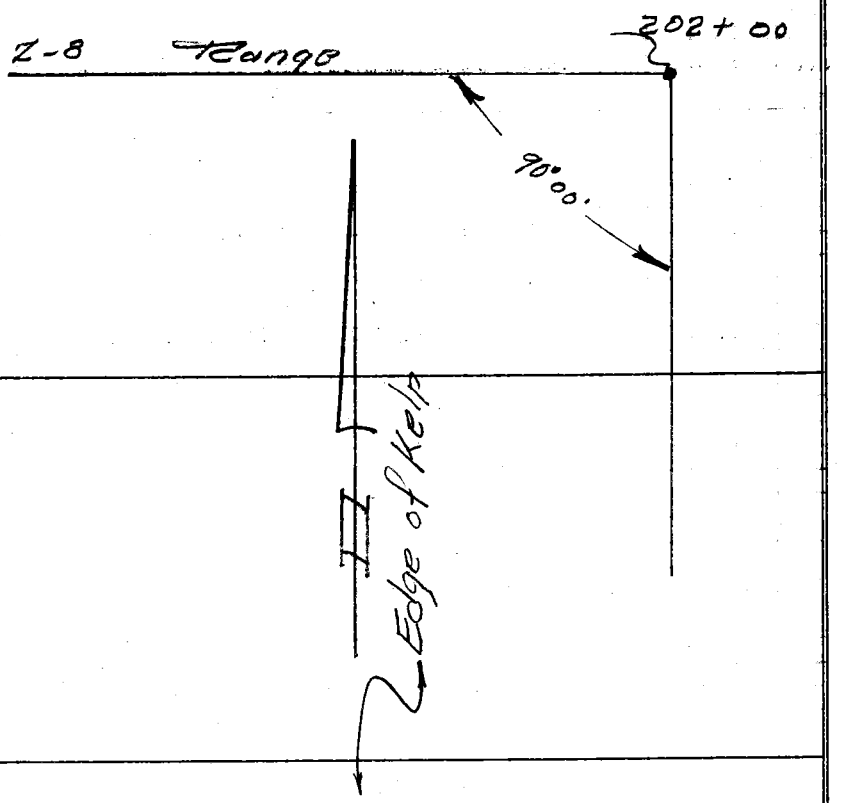
F. B. 2287 Pg. 206 Job No. 207524 Division No. 10 Notes Red. JCN Plotted JSH
Survey of Small Craft Harbor Date 10-57 No. Date 10-57 X-Sec.
Survey by Van Deven Notes R.T. Notes Chkd. JSH Checked JCN
Indexed K. C. Johnson Date 7-12-57 Date 10-57 No. Date 10-57 Profile

STATION	S. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	# Rec.	Depth Adj.	Time	Hor. Ang.		Remarks
192+50 / Z-8	21	21.3 18.6'		39° 10'	774'	Cut in Line 202+00
	22	20.6 17.9'		37° 05'	718'	
	23	19.2 16.5'		35° 10'	670'	
	24	17.3 14.6'		33° 12'	621'	
	25	16.2 13.5'		31° 37'	585'	
	26	14.8 12.1'		29° 36'	540'	
	27	13.6 10.9'		27° 38'	498'	
	28	12.8 10.1'		25° 55'	462'	Zero -0.5
	29	12.8 10.1'		24° 34'	434'	Boat +1.0
	30	12.4 9.7'		22° 50'	400'	Tide -3.2
	31	11.2 8.5'		20° 52'	362'	-2.7
	32	9.2 6.5'		18° 28'	317'	
	33	5.7 3.0'		16° 50'	288'	
	34	—	8:57	14° 45'	250'	

Profile No.	Notes Red. JSH	Plotted JCN	Job No. 0075.24	Division No. 10	F. B. 2287 Pg. 207
	Date 10-57	Date 10-57	Survey of Small Craft Harbor		
X-Sec. No.	Notes Chkd. JCN	Checked JSH	Survey by Van Deren	Notes Wilks	Date 7-12-57
	Date 10-57	Date 10-57	Map No.	Indexed Johnson	Date



STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On	#	Depth Rec. Adj.	Time	Hor. Ang.	
202+00 Z-8	1		8:51	90 00	
	2			"	
	3			"	
	4			"	
	5			"	
	6			"	
	7			"	
	8			"	
	9			"	
	10			"	
	11			"	
	12			"	
	13			"	
	14			"	
	15			"	
	16			"	
	17			"	
	18			"	
	19			"	
	20			"	

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
202+00	Z-8	21			90° 00'		
		22			"		
		23			"		
		24			"		
		25			"		
		26			"		
		27			"		
		28			"		
		29			"		
		30			"		
		31			"		
		32			"		
		33			"		
		34		8:57	"		

F. B. 2287 Pg. 208 Job No. 0025.28 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 7-12-57 Date 10-57 No.
Survey by Van Deren Notes Wilks Notes Chkd. JCN Checked JSH X-Sec.
Indexed C. Johnson Date Date 10-57 Date 10-57 No.

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst @ 202+00	Sight on 204+00
		6 70 ✓				Inshore 204+00
204+00			+54	12 1 ✓		
3 Rt.			+54	12 1 ✓	Bott Cliff	
47° L.			+47	11 4 ✓	Brk	
			22	4 5 ✓	23° 40' 88' ✓	
			49	1 8 ✓	34 59 140' ✓	
			63	0 4 ✓	43 24 189' ✓	
			73	-0 ~~7~~ 6	49 04 231' ✓	
			91	-2 4 ✓	54 50 284' ✓	
			104	-3 7 ✓	60 01 347' ✓	
			120	-5 3 ✓	61 43 372' ✓	
			157	-9 0 ✓	65 18 435' ✓	
			162	-9 5 ✓	67 09 475' ✓	

Profile
No. ____ Date ____ Notes Red JSH Plotted JCN Job No. 0075.24 Division No. 10 F.B. 2287 Pg 209
X-Sec. Date 10-57 Date 10-57 Survey of Small Craft Harbors
No. ____ Notes Chkd JCN Checked JSH Survey by English Notes Lind Date 7-12-57
Date 10-57 Date 10-57 Map No. ____ Indexed Johnson Date ____

76298 S & E #307—7-55

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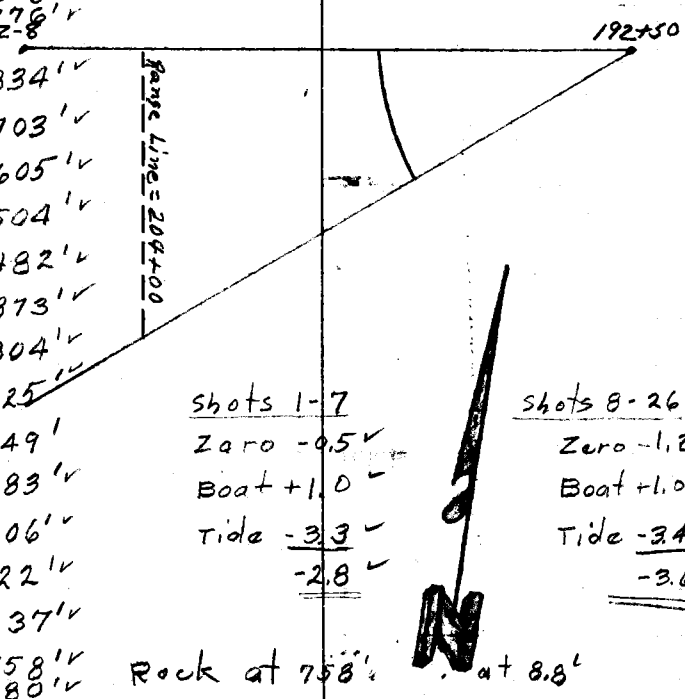
Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Depth Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
192+50	Z-8	1	51.1	48.3	9:07	62° 05'	2,170' Cut in Line 204+00
		2	49.0	46.2		60° 55'	2,068'
		3	46.7	43.9		59° 48'	1,976' Z-8
		4	44.7	41.9		57° 55'	1,834'
		5	41.4	38.6		55° 58'	1,703'
		6	38.7	35.9		54° 23'	1,605'
		7	36.6	33.8	9:09	52° 36'	1,504'
		8	36.8	33.2	9:11	52° 12'	1,482'
		9	34.0	30.4		50° 03'	1,373'
		10	32.3	28.7		48° 35'	1,304'
		11	30.8	27.2		46° 48'	1,225'
		12	29.5	25.9		44° 59'	1,149'
		13	28.3	24.7		43° 18'	1,083'
		14	27.4	23.8		41° 12'	1,006'
		15	26.0	22.4		38° 44'	922'
		16	23.7	20.1		36° 04'	837'
		17	12.4	8.8		33° 23'	758' Rock at 758'
		18	19.2	15.6		30° 36'	680' Edge of Kelp
		19	17.9	14.3		28° 52'	634'
		20	16.7	13.1		26° 53'	583'



Shots 1-7
Zero -0.5
Boat +1.0
Tide -3.3
-2.8

Shots 8-26
Zero -1.2
Boat +1.0
Tide -3.4
-3.6

Profile Notes Red. JCN Plotted JSH Job No. 0025.29 Division No. 10 F. B. 2287 Pg. 211
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JCN Survey by Van Deren Notes R.T. Date 9-12-57
No. Date 10-57 Date 10-57 Map No. Date

76298 S & E #307—7-55

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.	Remarks.	
		21	16.5	12.9'		25° 00'	536' Cut in Line 204+00	
		22	15.3	11.7'		23° 47'	507'	
		23	14.7	11.1'		22° 42'	481'	
		24	13.4	9.8'		21° 47'	460'	
		25	11.4	7.8'		19° 07'	399'	Zero -1.2
		26	10.1	6.5'	9:15	17° 48'	369'	Boat +1.0
		27						Tide -3.4
192+50	N-8	28						-3.6
		29						
		30						

F. B. 2287 Pg. 212 Job No. 0075.24 Division No. 10 Notes Red. JCN Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. JSH Checked JCN X-Sec.
Indexed C. Johnson Date 7-12-57 Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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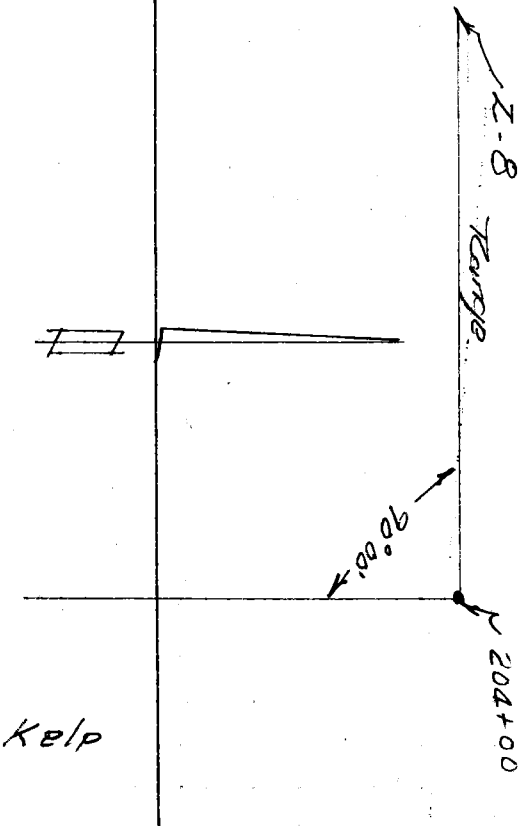
Do not extend notes this side of this line.

STATION Inst. At	Sight On	S. S. #	H. I. Depth Rec. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
204+00	Z-8	1		9:07	90°00'	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
		8			"	
		9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	Edge of Kelp
		19			"	
		20			"	



Profile Notes Red. JCN Plotted JSH Job No. 00 75.24 Division No. 10 F. B. 2287 Pg. 213
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JCN Survey by Van Deren Notes Wilks Date 7-12-57
No. Date 10-57 Date 10-57 Map No. Date

76298 S & E #307—7-55

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
204+00	Z-8	21			90° 00'		
		22			"		
		23			"		
		24			"		
		25			88° 40		
		26		9:15	90° 00		

F. B. 2287 Pg. 214 Job No. 10 75 24 Division No. 10 Notes Red. JCN Plotted JSH Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes Wilks Notes Chkd. JSH Checked JCN X-Sec.
Indexed C. Johnson Date 7-12-57 Date 10-57 Date 10-57 No.

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	Inst @ 202+00	Sight on 205+24.27
		670				Inshore
205+24.27			+26.3	33.0		Z-8= 205+24.27
30 L.			+26.3	33.0	Top Cliff	
			+52	11.9	Bott Cliff	13° 58' 81'
			00	67		18 29 108'
			44	23		24 03 145'
			48	19		29 59 187'
			68	-01		36 31 240'
			77	-10		42 30 297'
			96	-~~32~~ 2.9		48 13 363'
			122	-55		53 06 432'
			158	-91		60 31 574'
			182	-115		62 34 625'

Profile No. ____ Notes Red. JSH Plotted JCN Job No. 0075.24 Division No. 10 F.B. 2287 Pg. 215
Date 10-57 Date 10-57 Survey of Small Craft Harbors
X-Sec. No. ____ Notes Chkd. JCN Checked JSH Survey by English Notes Lind Date 7-12-57
Date 10-57 Date 10-57 Map No. ____ Date ____

76298 S & E #307—7-55

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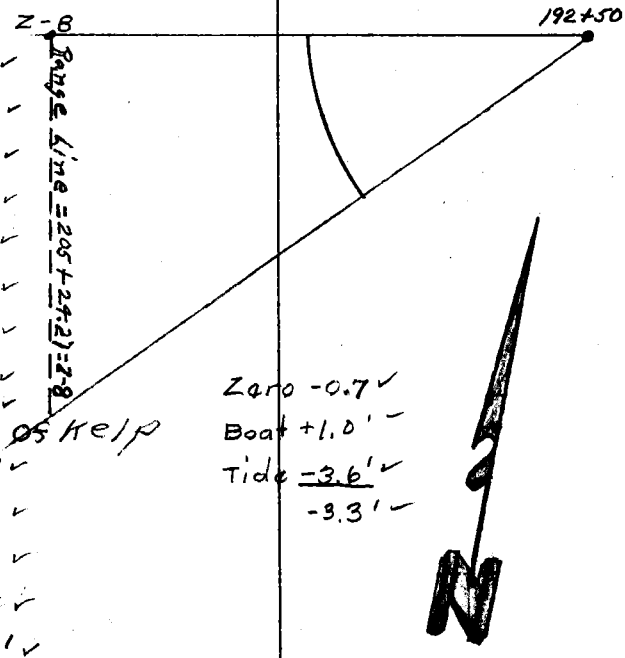
STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
192+50	Z-8	1	51.0	47.7'	9:32	58° 48'	2,104' Cut in Line 205+24.27=Z-8
		2	47.5	44.2'		57° 22'	1,990'
		3	45.4	42.1'		56° 10'	1,901'
		4	42.0	38.7'		53° 38'	1,730'
		5	38.8	35.5'		51° 20'	1,593'
		6	36.6	33.3'		49° 48'	1,507'
		7	35.2	31.9'		48° 20'	1,432'
		8	33.2	29.9'		46° 59'	1,366'
		9	31.7	28.4'		45° 38'	1,301'
		10	30.5	27.2'		44° 01'	1,231'
		11	29.1	25.8'		42° 33'	1,171'
		12	28.7	25.4'		41° 19'	1,120' Edge of Kelp
		13	28.4	25.1'		39° 56'	1,067'
		14	27.2	23.9'		38° 26'	1,012'
		15	26.7	23.4'		37° 26'	975'
		16	25.8	22.5'		36° 15'	934'
		17	24.5	21.2'		34° 51'	887'
		18	24.4	21.1'		33° 35'	846'
		19	23.5	20.2'		32° 27'	810'
		20	22.0	18.7'		31° 13'	772'



Zero -0.7
Boat +1.0'
Tide -3.6'
-3.3'

Profile Notes Red. JSH Plotted JCN Job No. 0075.24 Division No. 10 F. B. 2287 Pg. 217
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JSH Survey by Van Deren Notes P.T. Date 7-12-57
No. Date 10-57 Date 10-57 Map No. [illegible] Date

76298 S & E #307—7-55

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STATION		S. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec.	Adj.	Time	Hor. Ang.		Remarks
		21	20.3	17.0'		29° 29'	720'	Cut in Line 205+24.27 = Z-8
		22	18.6	15.3'		28° 15'	684'	
		23	17.4	14.1'		27° 13'	655'	Zero -0.7
		24	15.4	12.1'		26° 12'	627'	Boat +1.0
		25	13.0	9.7'		24° 22'	577'	Tide -3.6
		26	10.6	7.3'	9:37	22° 53'	538'	-3.3
		27						
		28						
192+50	Z-8	29						
		30						

F. B. 2287 Pg. 218 Job No. 0095.24 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 2-12-57 Date 10-57 No.
Survey by Van Deven Notes R.T. Notes Chkd. JCN Checked JSH X-Sec.
Indexed K. C. Johnson Date Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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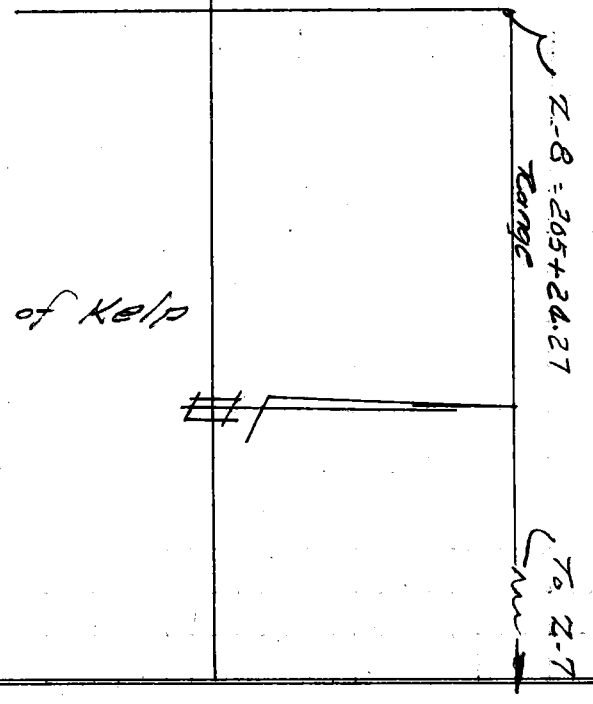
STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	Remarks	
Z-8	Z-7	1		9:32	90° 00'		
		2			"		
		3			"		
		4			"		
		5			"		
		6			"		
		7			"		
		8			"		
		9			"		
		10			"		
		11			"		
		12			"	Edge of Kelp	
		13			"		
		14			"		
		15			"		
		16			"		
		17			"		
		18			"		
		19			"		
		20			"		



Profile Notes Red. JCN Plotted JSH Job No. 00254-24 Division No. 10 F. B. 2287 Pg. 219
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JSH Checked JCN Survey by Van Deren Notes Wilks Date 7-12-57
No. Date 10-57 Date 10-57 Map No. Index Date

F. B. 2287 Pg. 220 Job No. 0075.24 Division No. 10 Notes Red. JCN Plotted JSH Profile

Survey of Small Craft Harbor Date 10-57 Date 10-57 No.

Survey by Van Deren Notes Wilks Notes Chkd. JSH Checked JCN X-Sec.

Indexed C. Johnson Date 7-12-57 Date 10-57 Date 10-57 No.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At On	# Rec. Depth Adj.	Time	Hor. Ang.		Remarks
Z-8 Z-7	21		90° 00'		
	22		"		
	23		"		
	24		"		
	25		"		
	26		9:37	"	

76L298 307 10-51

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ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst @ 202+00	Sight on 205+24.27
		670				Inshore
209+27.42				343	Z-9 =	209+27.42
			168	-101	51° 16' 322'	
T.P.	1791	2418	043	627		
90 L.			240	02	Bott clipp	
90 L.			86	156	Brk	
47 L.			08	234	Brk	
T.P.	1691	3778	331	2087		
Z-9			345	3433	Z-9 EL = 34269 M.L.L.W.	
						F.B. 2100-116

Profile
No. ____ Date 7-12-57 Notes Red Lind Plotted JCN Job No. 0075 24 Division No. 10 F.B. 2287 Pg. 221
X-Sec.
No. ____ Date 10-57 Notes Chkd JSH Checked JSH Date 10-57 Survey of Small Craft Harbors Survey by English Notes Lind Date 7-12-57
Map No. ____ Date ____ Lined Johnson Date ____

76298 S & E #307—7-55

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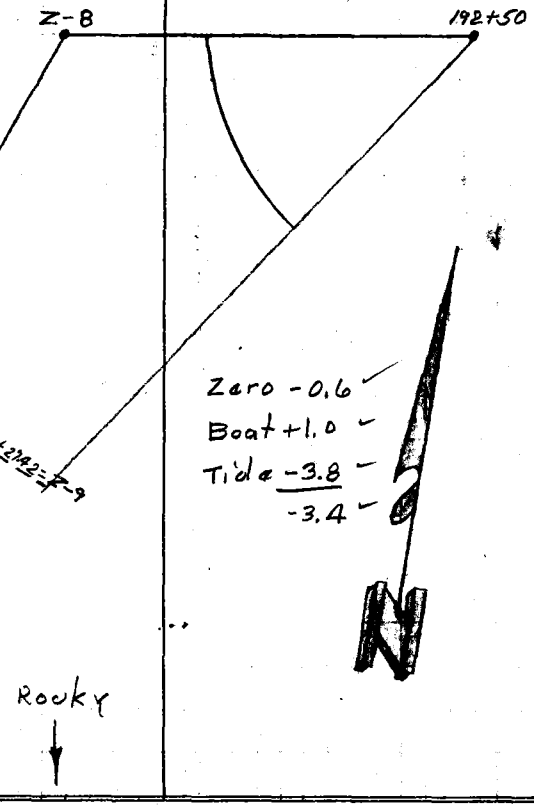
STATION Inst. At	Sight On	B. S. #	H. I. Depth Rec.	Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
192+50	Z-8	1	50.2	46.8'	9:52	55° 05'	1,783' Cut in Line 209+27.42 = Z-9
		2	49.2	45.8'		53° 58'	1,697'
		3	48.0	44.6'		52° 43'	1,605'
		4	46.1	42.7'		51° 25'	1,515'
		5	44.2	40.8'		50° 05'	1,429'
		6	42.2	38.8'		48° 50'	1,354'
		7	40.3	36.9'		47° 28'	1,274'
		8	37.8	34.4'		45° 52'	1,186'
		9	36.1	32.7'		44° 00'	1,090'
		10	33.4	30.0'		42° 08'	999'
		11	31.7	28.3'		40° 55'	Z-9 943' Range Line = 209+27.42 = Z-9
		12	29.8	26.4'		39° 05'	861'
		13	28.4	25.0'		37° 45'	805' Edge of Kelp
		14	26.7	23.3'		36° 45'	765'
		15	24.7	21.3'		35° 52'	729'
		16	25.5	22.1'		35° 09'	701'
		17	25.8	22.4'		34° 20'	670'
		18	24.5	21.1'		32° 43'	609'
		19	24.2	20.8'		31° 49'	576'
		20	24.3	20.9'		30° 30'	530'



Zero -0.6
Boat +1.0
Tide -3.8
-3.4

Profile Notes Red. JSH Plotted JCN Job No. 00825.29 Division No. 10 F. B. 2287 Pg. 223
No. Date 10-57 Date 10-57 Survey of Small Craft Harbor
X-Sec. Notes Chkd. JCN Checked JSH Survey by Van Deren Notes R.T. Date 7-12-57
No. Date 10-57 Date 10-57 Map No. Indexed Johnson Date

76298 S & E #307—7-55

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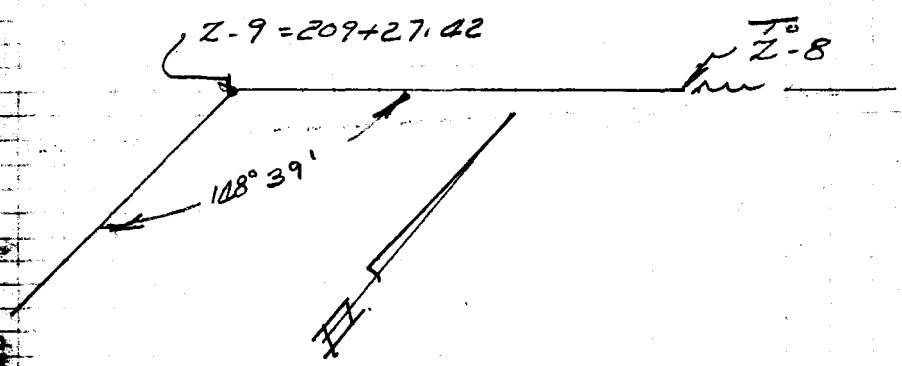
STATION Inst. At	STATION Sight On	B. S. #	H. I. Depth Rec.	H. I. Adj.	F. S. Time	ELEV. Hor. Ang.	Remarks
192+50	Z-8	21	23.8	20.4		29° 29'	494' Cut in Line 209+27.42 = Z-9
		22	22.5	19.1		28° 16'	454'
		23	20.3	16.9		27° 12'	419' Zero -0.6
		24	16.7	13.3		25° 35'	367' Boat +1.0
		25	13.9	10.5		24° 36'	336' Tide -3.8
		26	12.6	9.2	9:56	23° 33'	303' -3.4
Z-8	Z-9				10:20		Location of Pin Rock At Lachusa Pt.
						50° 45'	Pin Rock #1
						38° 42'	North End of Reef #1
						30° 03'	South End of Reef #1
						17° 17'	East End of Reef #2
						12° 21'	South End of Reef #2

See pg 226

F.B. 2287 Pg. 224 Job No. 00015.28 Division No. 10 Notes Red. JSH Plotted JCN Profile
Survey of Small Craft Harbor Date 10-57 Date 10-57 No.
Survey by Van Deren Notes R.T. Notes Chkd. JCN Checked JSH X-Sec.
Indexed K. C. Johnson Date 7-12-57 Date 10-57 Date 10-57 No.

Profile No.	Notes Red. JSH	Plotted JCN	Job No. 0075.24	Division No. 10	F. B. 2287 Pg. 225
	Date 10-57	Date 10-57	Survey of Small Craft Harbor		
X-Sec. No.	Notes Chkd. JCN	Checked JSH	Survey by Van Deren	Notes Wilks	Date 7-12-57
	Date 10-57	Date 10-57	Map No.	Indexed Johnson	Date



STATION		B. B.	H. I.	F. B.	ELEV.	Remarks
Inst. At	Sight On	#	Depth Rec. Adj.	Time	Hor. Ang.	
Z-9	Z-8	1		9:52	148 39	
		2			"	
		3			"	
		4			"	
		5			"	
		6			"	
		7			"	
		8			"	
		9			"	
		10			"	
		11			"	
		12			"	
		13			"	
		14			"	
		15			"	
		16			"	
		17			"	
		18			"	
		19			"	
		20			"	

Edge of Kelp

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76298 S & E #307—7-55

F. B. 2287 Pg. 226 Job No. 2525.24 Division No. 10 Notes Red. JSH Plotted JCN Profile

Survey of Small Craft Harbor Date 10-57 Date 10-57

Survey by Ken Deren Notes Wilks Notes Chkd. JCN Checked JSH

Indexed [illegible] Date 7-12-57 Date 10-57 Date 10-57

76295 S & E #307

Z-9	Z-8	21				148° 39'	
		22				"	
		23				"	
		24				"	
		25				"	
		26			9:56	"	
							Location of Reef & Rk's @ Lachusa Pt.
Z-9	Z-8					37° 32'	Pin Rock #1 Angle Clockwise
						55° 35'	North'ly edge of Reef #1 "
						97° 44'	South'ly " " " " "
						150° 58'	West'y " " " #2 "
						102° 16'	East'ly " " " " "
							See pg 224